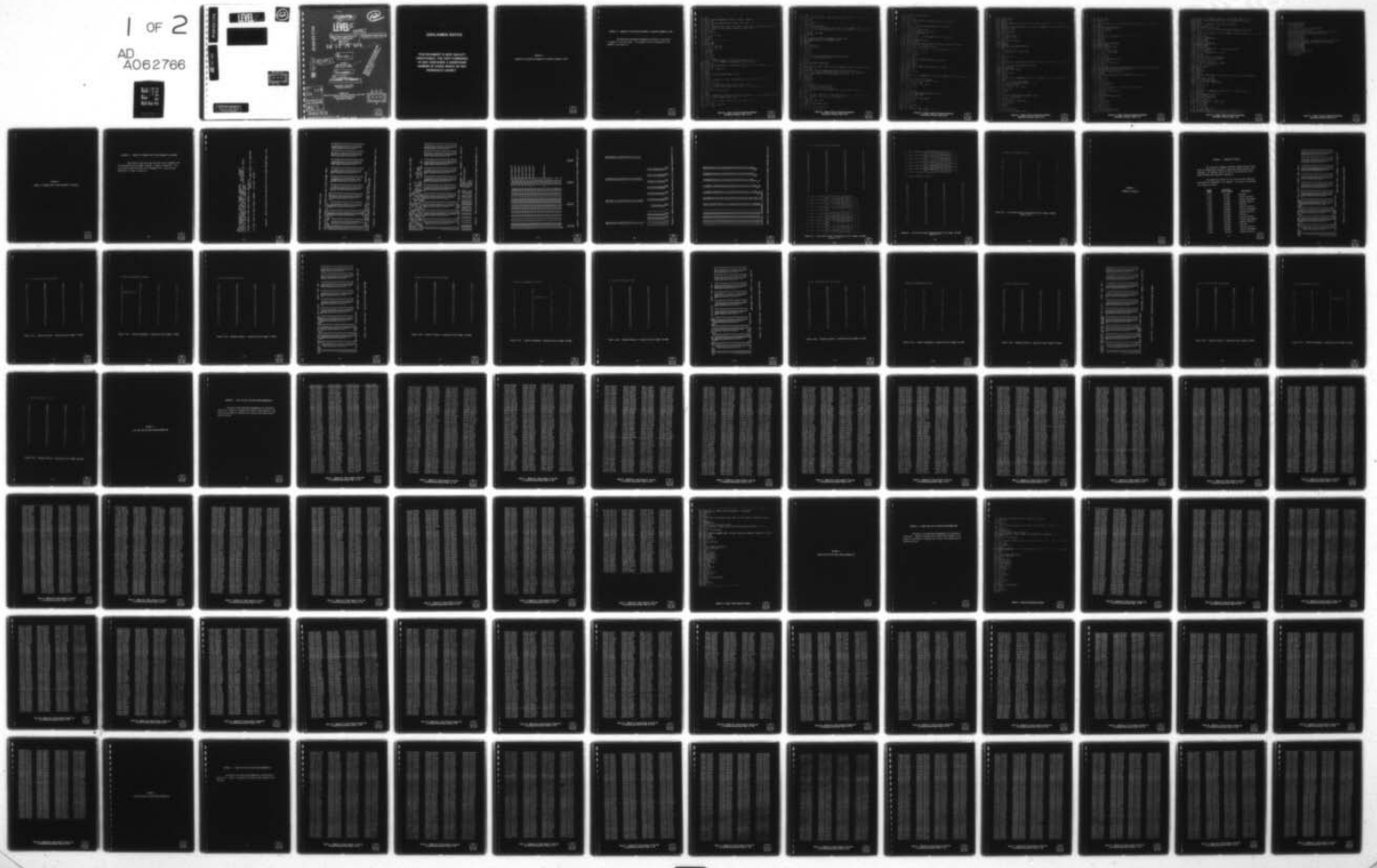
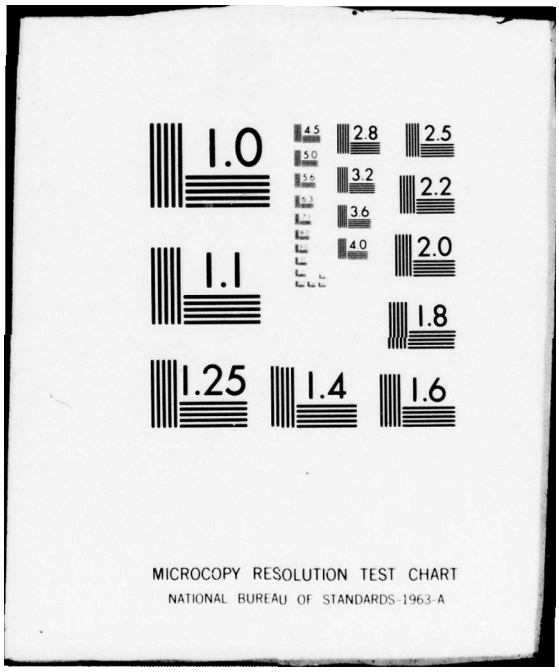
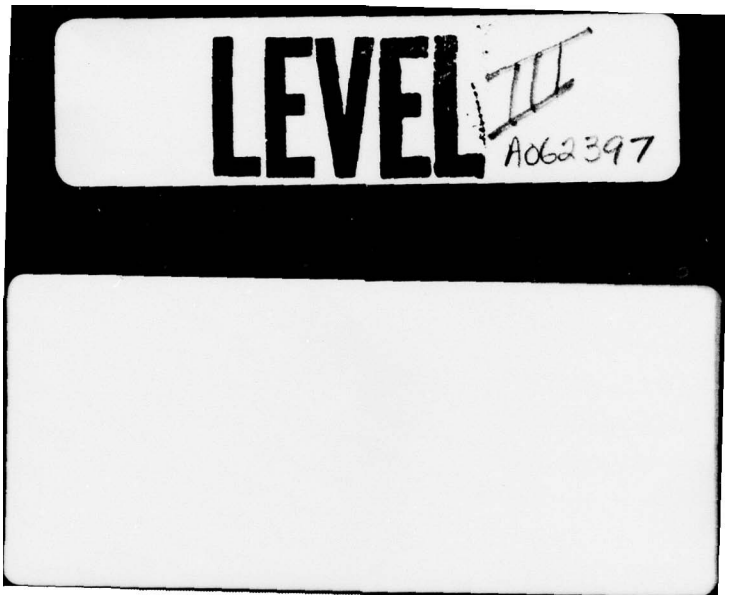
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APPENDIX G

BAROSWITCH CALIBRATION REDUNDANCY ELIMINATOR PROGRAM LISTING



APPENDIX G. BAROSWITCH CALIBRATION REDUNDANCY ELIMINATOR PROGRAM LISTING

The Baroswitch Calibration Redundancy Eliminator is described in section 6.1 of this report. Its program listing is presented in this appendix, see Figure G-1.

```
100 INIT
105 PRINT 'ENTER BAROSWITCH SERIAL NUMBER (NNNNNNN:  --  ')
110 INPUT M$
120 PRINT 'ENTER OPERATOR-DATE CODE (ABCYYMMDD)  --  ';
130 INPUT O$
140 PRINT 'PREPARE FOR PAPER TAPE ENTRY: LOAD TAPE WITH CENTER OF START'
150 PRINT 'BLOCK AT READ HEAD; PRESS CR WHEN READY'
160 INPUT Z$
170 DIM B$(1450)
180 B$=' '
190 FOR A1=1 TO 1410
200 RBYTE A
210 A=255-A
220 P9=A
230 GO TO 250
240 GOSUB 700
250 IF A>127 THEN 310
260 IF A=10 THEN 200
270 A$=CHR(A)
280 B$=B$&A$
290 NEXT A1
300 GO TO 330
310 A=A-128
320 GO TO 250
330 PRINT 'READER SHOULD STOP NEAR CENTER OF END BLOCK.'
340 PRINT ' ',' ','PRESS CR WHEN READY TO CONTINUE.'
350 INPUT Z$
360 PRINT 'IF WANT COPY OF THIS PAGE, ENTER + (IF NOT, ENTER -)  --  ';
370 INPUT Z$
380 IF Z$<>'+' THEN 400
390 COPY
400 PAGE
410 PRINT 'OPR-DATE(CCCYYMMDD): ';O$
420 PRINT
430 PRINT
440 PRINT 'BAROSWITCH ';M$;' CALIBRATION DATA FROM PAPER TAPE'
450 PRINT B$
460 PRINT ' ',O$
470 PRINT 'CK BARO SER NO. IN FIRST LINE OF DATA.'
480 PRINT 'ENTER 1-TAPE REENTRY OR 2-COPY OR 3-CONTINUE  --  ';
490 INPUT S
500 GO TO S OF 140,510,520
510 COPY
520 PAGE
530 PRINT 'PREPARE TO STORE CAL DATA: NOTE CASS NO. & LOAD CASS IN 4041'
540 PRINT 'ENTER CASSETTE NO. (NN)  --  ';
550 INPUT X
552 PRINT 'WANT TLIST?  ENTR 1(YES) OR 2(NO)  --  ';
554 INPUT Z9
556 GO TO Z9 OF 560,570
558 GO TO 552
```

Figure G-1. Program Listing for Baroswitch Calibration Redundancy Eliminator (Page 1 of 8)

```
 560 'LIST
 570 PRINT 'ENTER FILE NO. FOR STORING CAL DATA (FF)  --  ';
 580 INPUT Z1
 590 FIND Z1
 600 MARK 1,3000
 610 FIND Z1
 620 PRINT @33;M$,B$,D$
 630 PRINT 'CAL DATA STORED IN FILE ';Z1;' ON CASSETTE ';X;'   ';D$
 640 PRINT 'IF WANT WRITE ANOTHR CAL DATA FILE, ENTR + (- IF NOT)   ';
 650 INPUT Z$
 660 IF Z$='+' THEN 530
 670 GO TO 850
 680 STOP
 690 REM: WRITTEN 770302; DEBUGGED 770303. MCW
 700 REM: SUBRT FOR CK OF P9 EVEN PARITY
 710 P8=128
 720 P7=0
 730 FOR P6=1 TO 8
 740 IF P9<P8 THEN 770
 750 P9=P9-P8
 760 P7=P7+1
 770 P8=P8/2
 780 NEXT P6
 790 GO TO P7 OF 800,820,800,820,800,820,800,820
 800 PRINT 'P9 FAILED PARITY CK'
 810 STOP
 820 RETURN
 830 REM:DEBUGGED 770502 MCW
 840 STOP
 850 REM:READ CAL FILE, CHECK SUM OF PRESSURES, BUILD PRESSURE TABLE
 851 GO TO 860
 852 REM:ENTRY POINT IF WISH RUN FROM STORED BARO-CAL FILE
 854 PRINT 'LOAD CASS CONTAINING BARO-CAL DATA TO BE COMPRESSED,'
 856 PRINT 'ENTER FILE NO. OF BARO-CAL DATA (FF)  --  ';
 858 INPUT Z1
 860 DELETE Q
 870 DIM Q(184)
 880 Q(183)=0
 890 FIND Z1
 900 INPUT @33:B0
 910 INPUT @33:Q1,Q2,Q3,Q4,Q5,Q6
 920 IF Q1=99999 AND Q5=0 THEN 960
 930 PRINT 'BAROSWITCH TAPE HEADER TEST FAILED (SEE LINE BELOW)'
 940 LIST 920
 950 STOP
 960 PRINT 'BAROSW TAPE HDR: ';Q1;Q2;Q3;Q4;Q5;Q6;'  (CHECK SER. NO.)'
 970 PRINT 'ENTER + IF OK & RDY TO PROCEED  --  ';
 980 INPUT S$
 990 IF S$='+' THEN 1030
1000 LIST 970
1010 PRINT 'PROGRAMMED STOP'
1020 STOP
1030 FOR I=0 TO 170 STEP 10
1040 IF I=0 THEN 1070
```

Figure G-1. Program Listing for Baroswitch Calibration Redundancy Eliminator (Page 2 of 8)

```
10020 I(N)=(G(N)-G(N+1))*2
10030 NEXT N
10040 PRINT @41;
10050 PRINT @41;'BAROCAL INTERVALS ARE AS FOLLOWS;'
10060 PRINT @41;I
10070 C=I
10080 REM;HAS INTERVAL STAIRCASE BEEN ATTAINED?
10090 GOSUB 10790
10240 IF K=1000 THEN 10240
10110 REM;STAIRCASE NOT ATTAINED
10120 REM;CALC AVERAGES A(N)
10130 GOSUB 10590
10140 REM;CALC DEV I OF ADJUSTED INTS C FROM AVG A
10150 GOSUB 11130
10160 REM;FIND MAX DEV D(M)
10170 GOSUB 10700
10180 PRINT @41;'MAX DEV; D(';M;')=';C(M);'-';A(M);'=';D(M)
10185 IF ABS(D(M))<1.5 THEN 20000
10190 REM;ADJUST INT HAVING MAX DEV
10200 PRINT @41;' ','M=';M;'   INT ADJUSTED FROM ';C(M);
10210 GOSUB 11180
10220 PRINT @41;' TO ';C(M)
10230 GO TO 10060
10240 PRINT @41;
10250 PRINT @41;
10260 PRINT @41;'ADJUSTED INTERVALS FOLLOW;'
10270 PRINT @41;
10280 PRINT @41;C
10290 PRINT @41;
10300 PRINT @41;'INTERVAL ADJUSTMENTS FOLLOW;'
10310 PRINT @41;
10315 E=C-I
10320 PRINT @41;E
10330 END
10340 REM;CALC C(M) AGREEMENT C9 WITH 5 CLOSEST INTS, INCLUDING C(M)
10350 C9=0
10360 IF M<3 OR M>97 THEN 10440
10370 REM;MAKE BALANCED AGREEMENT CALC
10380 FOR N=M-2 TO M+2
10390 IF C(N)=C(M) THEN 10410
10400 GO TO 10420
10410 C9=C9+1/5
10420 NEXT N
10430 GO TO 10570
10440 REM;MAKE UNBALANCED AGREEMENT CALC
10450 IF M>97 THEN 10520
10460 FOR N=1 TO 5
10470 IF C(N)=C(M) THEN 10490
10480 GO TO 10500
10490 C9=C9+1/5
10500 NEXT N
10510 GO TO 10570
10520 FOR N=95 TO 99
10530 IF C(N)=C(M) THEN 10550
```

Figure G-1. Program Listing for Baroswitch Calibration Redundancy Eliminator (Page 4 of 8)

```
10540 GO TO 10560
10550 C9=C9+1/5
10560 NEXT N
10570 PRINT 'AFTER 3/5 CK AT M=';M;' WITH C(M)=';C(M);',  C9=';C9
10580 RETURN
10590 REM:BUILD AVG INTS ARRAY A(N),USE 4 CLOSEST INTS EACH SIDE OF C(N)
10600 FOR N=1 TO 99
10610 N0=1 MAX N-4
10620 N9=99 MIN N+4
10630 A(N)=0
10640 FOR N5=N0 TO N9
10650 A(N)=A(N)+C(N5)
10660 NEXT N5
10670 A(N)=A(N)/(N9-N0+1)
10680 NEXT N
10690 RETURN
10700 REM:FIND MAX DEVIATION D(M)
10710 D9=0
10720 FOR N=1 TO 99
10730 IF ABS(D(N))>D9 THEN 10750
10740 GO TO 10770
10750 M=N
10760 D9=ABS(D(N))
10770 NEXT N
10780 RETURN
10790 REM:INTERVAL STAIRCASE ATTAINED IN C(N)? N=1000(YES), N<1000(NO)
10800 N=1
10810 IF C(N+1)-C(N)<=1.0E-8 THEN 10830
10820 GO TO 10870
10830 IF N=98 THEN 10860
10840 N=N+1
10850 GO TO 10810
10860 N=1000
10870 RETURN
10880 REM:CALC C(M) AGREEMENT C9 WITH 7 CLOSEST INTS, INCLUDING C(M)
10890 C9=0
10900 IF M<4 OR M>96 THEN 10980
10910 REM:MAKE BALANCED AGREEMENT CALC
10920 FOR N=M-3 TO M+3
10930 IF C(N)=C(M) THEN 10950
10940 GO TO 10960
10950 C9=C9+1/7
10960 NEXT N
10970 GO TO 11110
10980 REM:MAKE UNBALANCED AGREEMENT CALC
10990 IF M>96 THEN 11060
11000 FOR N=1 TO 7
11010 IF C(N)=C(M) THEN 11030
11020 GO TO 11040
11030 C9=C9+1/7
11040 NEXT N
11050 GO TO 11110
11060 FOR N=93 TO 99
11070 IF C(N)=C(M) THEN 11090
```

Figure G-1. Program Listing for Baroswitch Calibration Redundancy Eliminator (Page 5 of 8)

```
11080 GO TO 11100
11090 C9=C9+1/7
11100 NEXT N
11110 PRINT 'AFTER 4/7 CK AT M=';M;' WITH C(M)=';C(M);', C9=';C9
11120 RETURN
11130 REM:CALC DEVIATIONS D(N)
11140 FOR N=1 TO 99
11150 D(N)=C(N)-A(N)
11160 NEXT N
11170 RETURN
11180 REM:ADJUST INTERVAL C(M)
11181 C0=C(M)
11185 C5=0.55
11190 C8=0
11200 C(M)=INT(A(M)+0.5+C8)
11210 GOSUB 10340
11220 IF C9>C5 THEN 11370
11230 GOSUB 10880
11240 IF C9>C5 THEN 11370
11250 IF I3=0 THEN 11280
11260 C8=-1*C8
11270 GO TO 11290
11280 C8=-1*(C8+1)
11290 IF ABS(C8)=4 THEN 11310
11300 GO TO 11200
11310 IF C5<0.5 THEN 11340
11320 C5=0.39
11330 GO TO 11190
11340 REM:FAILED TO ATTAIN NEAR-CONCENSUS BY TRYING INTS NEAR AVG
11350 REM:ADJUST INT HALF WAY TO AVG
11360 C(M)=INT((C0+A(M))/2+0.5)
11370 RETURN
20000 REM:INITIALIZE FOR FINAL SMOOTHING (SET 1ST INT)
20005 N=1
20010 PRINT 'C='
20015 PRINT C
20020 GOSUB 20430
20030 C(N)=INT(A(N)+1)
20040 GOSUB 20430
20050 REM:FINAL ADJUST INT PROFILE TO SMOOTHNESS
20060 FOR N=2 TO 99
20070 REM:TEST & ADJUST C(N)
20080 I9=C(N)
20090 GOSUB 20230
20100 IF I9=C(N) THEN 20160
20110 I8=C(N)
20120 C(N)=I9
20130 GOSUB 20430
20140 C(N)=I8
20150 GOSUB 20430
20160 NEXT N
20170 GOSUB 10790
20180 IF N=1000 THEN 20210
20185 LIST 20160
```

Figure G-1. Program Listing for Baroswitch Calibration Redundancy Eliminator (Page 6 of 8)

```
20190 PRINT ' ','!&#$%&'()*@?#&%!! SMOOTHNESS TEST FAILED !!'
20195 PRINT 'N=';N,'C(';N;')=';C(N),'C(';N+1;')=';C(N+1)
20200 STOP
20210 PRINT '  INTERVAL SMOOTHNESS ATTAINED.'
20220 GO TO 10240
20230 REM:TEST & ADJUST C(N)
20240 GO TO C(N)-C(N-1)+3 OF 20290,20342,20350,20370,20370
20250 PRINT
20260 PRINT 'INT CHANGE IS OUT OF RANGE, ENTR ADJUSTED C(';N;') -- ',
20270 INPUT C(N)
20280 GO TO 20420
20290 REM:INT CHANGE IS -2
20310 GOSUB 21000
20340 GO TO 20630
20342 REM:INT CHANGE IS -1
20344 GOSUB 21000
20349 GO TO 20630
20350 REM:INT CHANGE IS 0 ;  MAKE NO ADJUSTMENT
20360 GO TO 20420
20370 REM: INT CHANGE IS +1 OR +2
20380 C(N)=C(N-1)
20420 RETURN
20430 REM:PRINT C(N) & NEIGHBORS
20440 PRINT 'C(';N;') ET AL =';
20450 FOR N9=N-1 TO N+5
20460 IF N9<1 OR N9>99 THEN 20490
20470 PRINT '   ';C(N9);
20480 GO TO 20500
20490 PRINT '     ';
20500 NEXT N9
20510 PRINT ' '
20520 RETURN
20530 REM:CALC AGREEMENT, C9, OF C(N) WITH MAX OF 5 SUCCESSORS
20540 C9=0
20550 FOR N9=N+1 TO N+5
20560 IF N9>99 THEN 20610
20570 IF C(N)=C(N9) THEN 20600
20580 C9=C9-1
20590 GO TO 20610
20600 C9=C9+1
20610 NEXT N9
20620 REM:C9=0 IF AGREE WITH HALF; C9>0 IF MORE THAN HALF
20630 RETURN
21000 REM:CHANGE IS -2 OR -1
21010 IF N<99 THEN 21040
21020 REM:N=99; KEEP C(N)
21030 GO TO 21900
21040 IF C(N+1)=C(N-1) THEN 21060
21050 GO TO 21080
21060 C(N)=C(N-1)
21070 GO TO 21900
21080 IF N<98 THEN 21110
21090 REM:N=98;KEEP C(N) IF =>C(N+1) OR IF C(N+1)>C(N-1)
21095 IF C(N)=>C(N+1) OR C(N+1)>C(N-1) THEN 21900
```

Figure G-1. Program Listing for Baroswitch Calibration Redundancy Eliminator (Page 7 of 8)

```
21100 C(N)=C(N)+1
21105 GO TO 21900
21110 REM:N<98
21115 IF C(N+1)=C(N+2) THEN 21140
21120 IF N<97 THEN 21160
21130 REM:N=97;SETC(N)=(C(N+1)MAXC(N+2))MINC(N-1)
21135 C(N)=C(N+1) MAX C(N+2) MIN C(N-1)
21137 GO TO 21900
21140 C(N)=C(N+1)
21150 GO TO 21900
21160 IF C(N+1)=C(N+3) OR C(N+2)=C(N+3) THEN 21190
21170 REM:NO CONCENSUS IN NEXT 3; TRY NEXT 5
21180 GO TO 21220
21190 C(N)=C(N+3)
21200 GO TO 21900
21220 GOSUB 20530
21230 IF C9>0 THEN 21900
21240 C(N)=C(N)+1
21900 RETURN
```

Figure G-1. Program Listing for Baroswitch Calibration Redundancy Eliminator (Page 8 of 8)

APPENDIX H

EXAMPLE OF PROGRAM OUTPUT FROM REDUNDANCY ELIMINATOR

APPENDIX H. EXAMPLE OF PROGRAM OUTPUT FROM REDUNDANCY ELIMINATOR

The monitor display hard copy from the run of 8 November 1977, using baroswitch serial number 104-9661, is shown in Figure H-1. The line printer output from the run of 8 November 1977, using the same baroswitch, is shown in Figure H-2.

```
RUN
ENTER BAROSWITCH SERIAL NUMBER (NNNNNNNN)  --  1049661
ENTER OPERATOR-DATE CODE (ABCYYMMDD)  --  MCW771108
PREPARE FOR PAPER TAPE ENTRY: LOAD TAPE WITH CENTER OF START
BLOCK AT READ HEAD; PRESS CR WHEN READY

READER SHOULD STOP NEAR CENTER OF END BLOCK.
                                    PRESS CR WHEN READY TO CONTINUE.

IF WANT COPY OF THIS PAGE, ENTER + (IF NOT, ENTER -)      +
```


Figure H-1. Monitor Display Hard Copy From Baroswitch Serial Number 104-9661 (sheet 1 of 6)

```
OPR-DATE(OOOYYMMDD): MCW771108

BAROSWITCH 1049661 CALIBRATION DATA FROM PAPER TAPE
 ↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓
↓99999  104 9661    50     0 9815
↓000          1062.3 1051.3 1039.3 1027.8 1016.8 1002.8  991.3  980.8 969.8
↓010 959.8   946.3  936.3  925.3  915.3  904.8  891.8  882.3  871.3 861.3
↓020 851.3   839.3  829.8  820.3  810.8  800.3  788.8  779.3  770.3 760.8
↓030 752.3   742.3  733.3  724.3  715.3  706.8  695.8  686.8  678.3 669.8
↓040 661.3   649.3  640.8  632.3  624.3  615.8  607.8  599.3  591.3 583.3
↓050 575.8   566.3  558.3  550.3  542.8  535.3  526.3  518.8  511.3 504.3
↓060 496.8   489.3  482.3  475.3  468.8  461.8  453.3  446.8  440.3 433.3
↓070 427.3   419.3  412.8  406.3  399.8  393.8  387.8  381.8  375.8 369.8
↓080 363.8   356.3  350.8  345.3  339.3  333.8  326.8  321.3  316.3 310.8
↓090 305.3   300.3  295.3  290.3  284.8  279.8  273.8  269.3  264.3 259.3
↓100 254.8   248.8  244.3  239.8  235.3  230.3  226.3  221.8  217.8 213.3
↓110 209.3   204.3  199.8  195.8  191.8  188.3  183.3  179.3  175.8 171.8
↓120 168.3   164.3  161.3  157.8  154.3  150.8  146.3  143.3  139.8 136.8
↓130 133.3   129.8  126.3  123.8  120.8  117.8  114.3  110.8  107.3 103.8
↓140 100.3    97.3   93.8   90.8   87.3   84.3   81.3   78.3   75.3  72.3
↓150  69.3    66.3   63.8   60.8   57.8   55.3   52.3   49.8   46.8  43.8
↓160  41.3    38.3   35.8   32.8   30.3   27.3   24.3   21.8   18.8  15.8
↓170  13.3    10.3    7.3    4.3    1.3      0      0      0      0     0
↓180   0  0  8490.2
↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓                          MCW771108
CK BARO SER NO. IN FIRST LINE OF DATA.
ENTER 1-TAPE REENTRY OR 2-COPY OR 3-CONTINUE  --  2
```

Figure H-1. Monitor Display Hard Copy From Baroswitch Serial Number 104-9661 (sheet 2 of 6)

```
PREPARE TO STORE CAL DATA: NOTE CASS NO. & LOAD CASS IN 4051
ENTER CASSETTE NO. (NN)  --  04
WANT TLIST?  ENTR 1(YES) OR 2(NO)  --  2
ENTER FILE NO. FOR STORING CAL DATA (FF)  --  36
CAL DATA STORED IN FILE 36 ON CASSETTE 4   MCW771108
IF WANT WRITE ANOTHR CAL DATA FILE, ENTR + (- IF NOT)   -
BAROSW TAPE HDR: 99999 104 9661 50 0 9815  (CHECK SER. NO.)
ENTER + IF OK & RDY TO PROCEED  --  +
  0     0.0 1062.3 1051.3 1039.3 1027.8 1016.8 1002.8  991.3  980.8 969.8
 10   959.8  946.3  936.3  925.3  915.3  904.8  891.8  882.3  871.3 861.3
 20   851.3  839.3  829.8  820.3  810.8  800.3  788.8  779.3  770.3 760.8
 30   752.3  742.3  733.3  724.3  715.3  706.8  695.8  686.8  678.3 669.8
 40   661.3  649.3  640.8  632.3  624.3  615.8  607.8  599.3  591.3 583.3
 50   575.8  566.3  558.3  550.3  542.8  535.3  526.3  518.8  511.3 504.3
 60   496.8  489.3  482.3  475.3  468.8  461.8  453.3  446.8  440.3 433.3
 70   427.3  419.3  412.8  406.3  399.8  393.8  387.8  381.8  375.8 369.8
 80   363.8  356.3  350.8  345.3  339.3  333.8  326.8  321.3  316.3 310.8
 90   305.3  300.3  295.3  290.3  284.8  279.8  273.8  269.3  264.3 259.3
100   254.8  248.8  244.3  239.8  235.3  230.3  226.3  221.8  217.8 213.3
110   209.3  204.3  199.8  195.8  191.8  188.3  183.3  179.3  175.8 171.8
120   168.3  164.3  161.3  157.8  154.3  150.8  146.3  143.3  139.8 136.8
130   133.3  129.8  126.3  123.8  120.8  117.8  114.3  110.8  107.3 103.8
140   100.3   97.3   93.8   90.8   87.3   84.3   81.3   78.3   75.3  72.3
150    69.3   66.3   63.8   60.8   57.8   55.3   52.3   49.8   46.8  43.8
160    41.3   38.3   35.8   32.8   30.3   27.3   24.3   21.8   18.8  15.8
170    13.3   10.3    7.3    4.3    1.3    0.0    0.0    0.0    0.0   0.0
180     0.0    0.0 8490.2
CAL FILE OPR-DATE CODE = MCW771108
                                        PRESSURE SUM = 68490.2 (CK SUM OK)
AFTER 3/5 CK AT M=40 WITH C(M)=18,  C9=0.2
AFTER 4/7 CK AT M=40 WITH C(M)=18, C9=0.142857142857
AFTER 3/5 CK AT M=40 WITH C(M)=17,  C9=1
AFTER 3/5 CK AT M=5 WITH C(M)=23,  C9=0.6
AFTER 3/5 CK AT M=10 WITH C(M)=22,  C9=0.6
AFTER 3/5 CK AT M=15 WITH C(M)=21,  C9=0.4
```

Figure H-1 Monitor Display Hard Copy From Baroswitch Serial Number 104-9661 (sheet 3 of 6)

```
AFTER 4/7 CK AT M=15 WITH C(M)=21, C9=0.285714285714
AFTER 3/5 CK AT M=15 WITH C(M)=20,  C9=0.4
AFTER 4/7 CK AT M=15 WITH C(M)=20, C9=0.428571428571
AFTER 3/5 CK AT M=15 WITH C(M)=22,  C9=0.4
AFTER 4/7 CK AT M=15 WITH C(M)=22, C9=0.428571428571
AFTER 3/5 CK AT M=15 WITH C(M)=19,  C9=0.4
AFTER 4/7 CK AT M=15 WITH C(M)=19, C9=0.285714285714
AFTER 3/5 CK AT M=15 WITH C(M)=23,  C9=0.2
AFTER 4/7 CK AT M=15 WITH C(M)=23, C9=0.142857142857
AFTER 3/5 CK AT M=15 WITH C(M)=18,  C9=0.2
AFTER 4/7 CK AT M=15 WITH C(M)=18, C9=0.142857142857
AFTER 3/5 CK AT M=15 WITH C(M)=24,  C9=0.2
AFTER 4/7 CK AT M=15 WITH C(M)=24, C9=0.142857142857
AFTER 3/5 CK AT M=15 WITH C(M)=21,  C9=0.4
AFTER 3/5 CK AT M=35 WITH C(M)=18,  C9=0.6
AFTER 3/5 CK AT M=20 WITH C(M)=20,  C9=0.6
AFTER 3/5 CK AT M=25 WITH C(M)=19,  C9=0.6
AFTER 3/5 CK AT M=65 WITH C(M)=14,  C9=0.4
AFTER 4/7 CK AT M=65 WITH C(M)=14, C9=0.571428571429
AFTER 3/5 CK AT M=80 WITH C(M)=12,  C9=0.6
AFTER 3/5 CK AT M=50 WITH C(M)=16,  C9=0.8
AFTER 3/5 CK AT M=70 WITH C(M)=13,  C9=0.6
AFTER 3/5 CK AT M=85 WITH C(M)=11,  C9=0.6
AFTER 3/5 CK AT M=55 WITH C(M)=15,  C9=1
AFTER 3/5 CK AT M=95 WITH C(M)=10,  C9=0.6
AFTER 3/5 CK AT M=17 WITH C(M)=20,  C9=0.6
AFTER 3/5 CK AT M=24 WITH C(M)=19,  C9=1
AFTER 3/5 CK AT M=30 WITH C(M)=18,  C9=0.6
C=

 22                  24                  23                  22
 23                  23                  21                  22
 20                  22                  20                  22
 20                  21                  21                  19
```


Figure H-1. Monitor Display Hard Copy From Baroswitch Serial Number 104-9661 (sheet 4 of 6)

```
20
19
19
17
18
17
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16
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20
19
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16
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15
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14
13
12
12
11
11
10
9
```

```
C(1) ET AL =          22   24   23   22   23   23
C(1) ET AL =          23   24   23   22   23   23
C(2) ET AL =    23    24   23   22   23   23   21
C(2) ET AL =    23    23   23   22   23   23   21
C(4) ET AL =    23    22   23   23   21   22   20
C(4) ET AL =    23    23   23   23   21   22   20
C(7) ET AL =    23    21   22   20   22   20   22
C(7) ET AL =    23    22   22   20   22   20   22
C(9) ET AL =    22    20   22   20   22   20   21
C(9) ET AL =    22    22   22   20   22   20   21
C(11) ET AL =    22    20    22    20    21    21    19
C(11) ET AL =    22    22    22    20    21    21    19
```

Figure H-1. Monitor Display Hard Copy From Baroswitch Serial Number 104-9661 (sheet 5 of 6)

```
C(13) ET AL =   22   20   21   21   19   20   20
C(13) ET AL =   22   21   21   21   19   20   20
C(16) ET AL =   21   19   20   20   20   20   19
C(16) ET AL =   21   20   20   20   20   20   19
C(27) ET AL =   19   18   19   17   18   18   18
C(27) ET AL =   19   19   19   17   18   18   18
C(29) ET AL =   19   17   18   18   18   18   17
C(29) ET AL =   19   18   18   18   18   18   17
C(34) ET AL =   18   17   18   18   17   17   17
C(34) ET AL =   18   18   18   18   17   17   17
C(43) ET AL =   17   16   17   16   17   16   16
C(43) ET AL =   17   17   17   16   17   16   16
C(45) ET AL =   17   16   17   16   16   15   16
C(45) ET AL =   17   17   17   16   16   15   16
C(49) ET AL =   16   15   16   16   16   15   15
C(49) ET AL =   16   16   16   16   16   15   15
C(58) ET AL =   15   14   15   15   14   14   13
C(58) ET AL =   15   15   15   15   14   14   13
C(63) ET AL =   14   13   14   14   13   13   14
C(63) ET AL =   14   14   14   14   13   13   14
C(68) ET AL =   13   14   12   13   13   13   13
C(68) ET AL =   13   13   12   13   13   13   13
C(69) ET AL =   13   12   13   13   13   13   12
C(69) ET AL =   13   13   13   13   13   13   12
C(83) ET AL =   11   12   11   11   11   10   11
C(83) ET AL =   11   11   11   11   11   10   11
C(87) ET AL =   11   10   11   11   10   10   10
C(87) ET AL =   11   11   11   11   10   10   10
C(93) ET AL =   10   11   10   10    9   10   10
C(93) ET AL =   10   10   10   10    9   10   10
C(96) ET AL =   10    9   10   10    9
C(96) ET AL =   10   10   10   10    9
INTERVAL SMOOTHNESS ATTAINED.
```

Figure H-1. Monitor Display Hard Copy From Baroswitch Serial Number 104-9661 (sheet 6 of 6)

```
CRITICAL INTERVALS ARE AS FOLLOWS:

                                                                    
                                                                    
                                                                    
```

```
MAX DEV: D(85)=14-11.3333333333=2.66666666667
                  M=85   INT ADJUSTED FROM 14 TO 11
MAX DEV: D(55)=18-15.4444444444=2.55555555556
                  M=55   INT ADJUSTED FROM 18 TO 15
MAX DEV: D(95)=12-10.1111111111=1.88888888889
                  M=95   INT ADJUSTED FROM 12 TO 10
MAX DEV: D(17)=22-20.2222222222=1.77777777778
                  M=17   INT ADJUSTED FROM 22 TO 20
MAX DEV: D(24)=21-19.2222222222=1.77777777778
                  M=24   INT ADJUSTED FROM 21 TO 19
MAX DEV: D(30)=20-18.2222222222=1.77777777778
                  M=30   INT ADJUSTED FROM 20 TO 18
MAX DEV: D(9)=20-21.4444444444=-1.44444444444

ADJUSTED INTERVALS FOLLOW:

 23                23                23                23
 23                23                22                22
 22                22                22                21
 21                21                21                20
 20                20                20                19
 19                19                19                19
 19                19                19                18
 18                18                18                18
 18                18                18                17
 17                17                17                17
 17                17                17                16
 16                16                16                16
 15                15                15                15
 15                15                15                14
 14                14                14                13
 13                13                13                13
 13                12                12                12
 12                12                12                11
 11                11                11                11
 11                11                11                10
 11                10                10                10
 10                10                9
 10                10
```

Figure H-2. Line Printer Output From Baroswitch Serial Number 104-9661 (sheet 2 of 3)

INTERVAL ADJUSTMENTS FOLLOW:

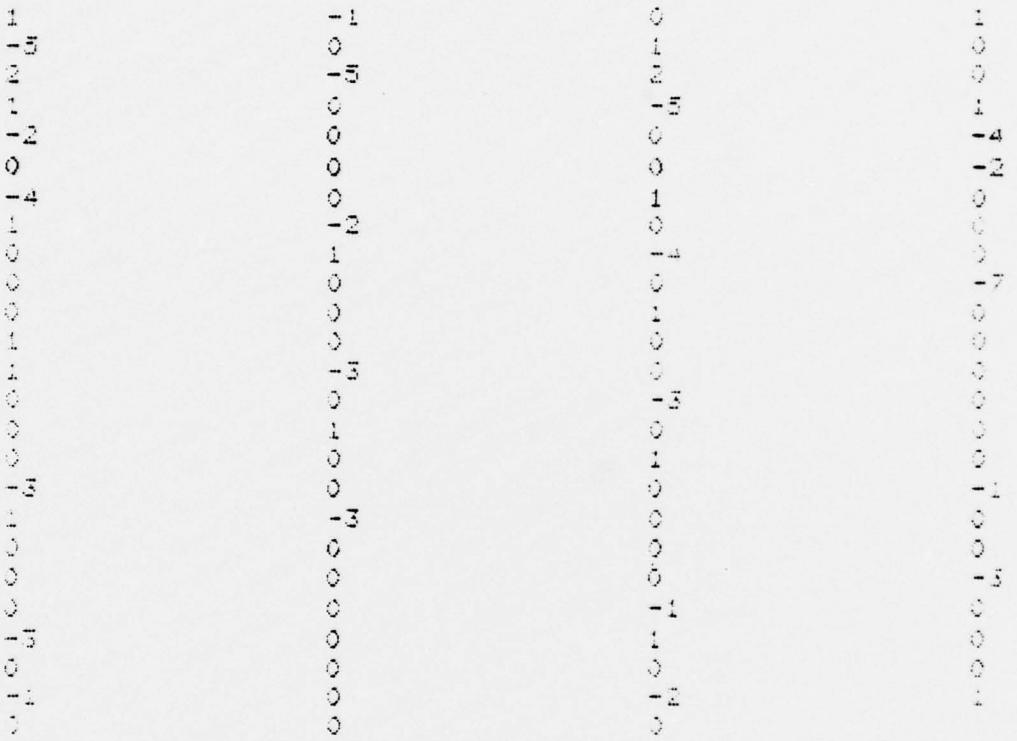


Figure H-2. Line Printer Output From Baroswitch Serial Number 104-9661 (sheet 3 of 3)

APPENDIX I

PROGRAM TEST RESULTS

APPENDIX I. PROGRAM TEST RESULTS

The calibration redundancy elminator program has been tested using five baroswitches selected at random from those provided by the government. The complete results of the run using baroswitch serial number 104-9661 were presented in Appendix H.

The program test results for the runs using four additional baroswitches are presented in this appendix. The results are organized into figures as follows:

Figure Number	Baroswitch Serial Number	Test Results
C-1(a)	112-9507	Pressures
C-1(b)	112-9507	Pressure Intervals
C-1(c)	112-9507	Interval Adjustments
C-1(d)	112-9507	Smoothed Intervals
C-2(a)	103-9658	Pressures
C-2(b)	103-9658	Pressure Intervals
C-2(c)	103-9658	Interval Adjustements
C-2(d)	103-9658	Smoothed Intervals
C-3(a)	101-9535	Pressures
C-3(b)	101-9535	Pressure Intervals
C-3(c)	101-9535	Interval Adjustements
C-3(d)	101-9535	Smoothed Invervals
C-4(a)	103-9653	Pressures
C-4(b)	103-9653	Pressure Intervals
C-4(c)	103-9653	Interval Adjustments
C-4(d)	103-9653	Smoothed Intervals

```
BAROSW TAPE HDR: 99999 112 9507 55 0 9674  (CHECK SER. NO.)
ENTER + IF OK & RDY TO PROCEED  --  +
  0     0.0 1062.3 1050.3 1037.8 1025.8 1013.8  999.8  987.3  976.3 964.8
 10   954.3  940.3  928.8  917.3  906.3  895.8  882.8  871.8  861.3 850.8
 20   840.3  827.3  817.3  807.3  797.3  786.3  774.8  764.8  755.3 745.3
 30   736.3  726.3  717.3  708.3  698.3  689.3  678.3  669.3  660.3 651.3
 40   642.8  631.8  623.3  614.8  606.3  598.3  589.3  581.3  572.8 565.3
 50   557.3  547.3  539.3  531.8  523.8  516.3  506.8  499.3  492.3 484.8
 60   477.8  470.3  463.3  455.8  448.3  441.3  432.8  425.8  419.3 412.3
 70   405.8  398.3  391.3  385.3  378.8  372.8  366.8  360.3  354.3 348.3
 80   342.8  335.3  329.8  323.8  318.3  313.3  305.8  300.3  295.3 289.8
 90   284.3  279.8  274.3  269.3  264.3  259.3  253.3  248.3  243.3 238.8
100   234.3  228.3  223.8  219.8  215.3  210.8  206.3  202.3  197.8 193.3
110   189.8  184.8  180.8  177.3  173.3  169.3  164.8  161.3  157.8 153.8
120   150.3  146.8  143.8  140.3  136.8  133.8  129.8  126.3  123.3 120.3
130   117.3  113.8  110.8  107.8  104.3  101.8   98.3   95.3   91.8  88.8
140    85.8   82.3   79.3   76.3   73.3   70.3   67.3   64.3   61.8  58.3
150    55.8   52.8   50.3   47.3   44.3   41.3   38.8   36.3   33.3  30.3
160    27.8   25.3   22.3   19.3   16.8   13.8   11.3    7.8    5.3   1.8
170     0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0   0.0
180     0.0    0.0 5709.7
CAL FILE OPR-DATE CODE = MCW771108
                                  PRESSURE SUM = 65709.7 (CK SUM OK)
```

Figure I-1(a). Pressure Table - Baroswitch Serial Number 112-9507

BAROCAL INTERVALS ARE AS FOLLOWS:

24	25	24	24
28	25	22	23
21	28	23	23
22	21	26	22
21	21	21	26
20	20	20	22
23	20	19	20
18	20	18	18
20	18	22	18
18	18	17	22
17	17	17	16
18	16	17	15
16	20	16	15
16	15	19	15
14	15	14	15
14	15	15	14
17	14	13	14
13	15	14	12
13	12	12	13
12	12	11	15
11	12	11	10
15	11	10	11
11	9	11	10
10	10	12	10
10	9	9	

Figure I-1(b). Pressure Intervals - Baroswitch Serial Number 112-9507

INTERVAL ADJUSTMENTS FOLLOW:

1	0	0	0
-4	-1	1	0
2	-5	0	0
0	1	-4	0
0	0	0	-5
7.275957614E-12	0	0	-2
-3	0	1	0
2	0	0	0
-2	0	-4	0
0	0	0	-5
0	0	0	1
-1	1	0	1
0	-4	0	1
0	0	-4	0
1	0	1	0
1	0	0	0
-3	0	1	0
1	-1	0	0
-1	0	0	-1
0	0	1	-3
1	0	0	1
-4	0	1	0
0	2	0	0
0	0	-2	0
0	0	0	

Figure I-1(c). Interval Adjustments - Baroswitch Serial Number 112-9507

ADJUSTED INTERVALS FOLLOW:

25	25	24	24
24	24	23	23
23	23	23	23
22	22	22	22
21	21	21	21
20	20	20	20
20	20	20	20
20	20	18	18
18	18	18	18
18	18	17	17
17	17	17	17
17	17	17	16
16	16	16	16
16	15	15	15
15	15	15	15
15	15	15	14
14	14	14	14
14	14	14	12
12	12	12	12
12	12	12	12
12	12	11	11
11	11	11	11
11	11	11	10
10	10	10	10
10	9	9	

Figure I-1(d). Smoothed Intervals - Baroswitch Serial Number 112-9507

```
BAROSW TAPE HDR: 99999 103 9658 50 0 9811  (CHECK SER. NO.)
ENTER + IF OK & RDY TO PROCEED  --  +
  0     0.0 1063.8 1051.8 1040.3 1028.3 1016.3 1003.3  991.3  980.3 969.3
 10   958.8  945.3  934.3  923.8  912.8  902.8  889.8  879.3  869.3 859.3
 20   849.3  836.8  826.3  816.8  807.3  797.8  785.3  776.3  767.3 757.8
 30   748.8  739.8  730.3  721.3  712.3  703.3  691.8  682.3  673.3 664.8
 40   655.8  645.3  636.3  627.8  619.3  611.3  603.3  595.3  586.8 579.3
 50   570.8  561.3  553.3  545.8  538.3  530.8  521.8  514.3  506.8 499.3
 60   491.8  484.8  477.8  470.8  463.3  456.3  448.3  441.8  434.8 427.8
 70   421.3  413.3  406.8  400.8  394.3  388.3  381.8  375.8  369.8 363.3
 80   357.8  350.3  344.3  338.8  333.3  327.8  320.8  315.3  310.3 304.3
 90   298.8  293.8  288.8  283.3  278.8  273.8  267.3  262.3  257.8 252.8
100   248.3  242.3  237.8  232.8  228.3  223.8  219.3  215.3  210.8 206.8
110   202.3  197.3  193.8  189.3  185.3  181.8  176.8  172.8  169.3 165.3
120   161.8  158.3  155.3  151.3  147.8  144.3  140.3  136.8  133.8 130.3
130   127.3  123.3  120.3  117.3  114.3  111.3  107.8  104.3  101.3  97.8
140    94.8   91.3   88.3   85.3   82.3   79.3   76.3   73.3   70.3  67.8
150    64.8   61.8   58.8   56.3   53.3   50.8   48.3   45.3   42.8  39.8
160    37.3   34.8   32.3   29.3   26.8   24.3   21.3   18.8   16.3  13.3
170    10.8    8.3    5.3    2.3    0.0    0.0    0.0    0.0    0.0   0.0
180     0.0    0.0 7682.4
CAL FILE OPR-DATE CODE = MCW771108
                                  PRESSURE SUM = 67682.4 (CK SUM OK)
```

Figure I-2(a). Pressure Table - Baroswitch Serial Number 103-9658

BAROCAL INTERVALS ARE AS FOLLOWS:

24	23	24	24
26	24	22	22
21	27	22	21
22	20	26	21
20	20	20	25
21	19	19	19
25	18	18	19
18	18	19	18
18	18	23	19
18	17	18	21
18	17	17	16
16	16	17	15
17	19	16	15
15	15	18	15
15	15	15	14
14	14	15	14
16	13	14	14
13	16	13	12
13	12	13	12
12	13	11	15
12	11	11	11
14	11	10	12
11	10	10	11
9	10	13	10
9	10	9	

Figure I-2(b). Pressure Intervals - Baroswitch Serial Number 103-9658

INTERVAL ADJUSTMENTS FOLLOW:

0	1	0	0
-2	0	0	0
1	-5	0	1
0	0	-5	-1
0	0	0	-5
-1	7.275957614E-12	0	0
-6	0	0	-1
0	0	-1	0
0	0	-5	-1
0	1	0	-3
0	-1	-1	0
0	0	-1	0
-2	-4	-1	0
0	0	-3	0
0	0	0	0
0	0	-1	0
-2	1	0	0
0	-3	0	1
0	1	0	1
1	0	0	-4
-1	0	0	0
-3	0	1	-1
0	0	0	-1
1	0	-5	0
1	0	0	

Figure I-2(c). Interval Adjustments - Baroswitch Serial Number 103-9658

ADJUSTED INTERVALS FOLLOW:

24	24	24	24
24	24	22	22
22	22	22	22
22	20	20	20
20	20	20	20
20	19	19	19
19	18	18	18
18	18	18	18
18	18	18	18
18	18	18	18
18	16	16	16
16	16	16	15
15	15	15	15
15	15	15	15
15	15	15	14
14	14	14	14
14	14	14	14
13	13	13	13
13	13	13	13
13	13	11	11
11	11	11	11
11	11	11	11
11	10	10	10
10	10	10	10
10	10	9	

Figure I-2(d). Smoothed Intervals - Baroswitch Serial Number 103-9658

```
BAROSW TAPE HDR: 99999 101 9535 55 0 9691  (CHECK SER. NO.)
ENTER + IF OK & RDY TO PROCEED  --  +
  0     0.0 1065.8 1053.3 1041.3 1028.3 1016.3 1000.8  988.8  976.8 964.8
 10   953.8  939.3  927.3  915.8  905.3  894.3  880.3  869.3  858.3 847.3
 20   836.8  823.8  813.3  802.8  792.3  782.3  769.8  759.3  749.3 739.3
 30   729.8  720.3  710.8  701.3  691.3  682.3  670.8  661.8  652.3 643.3
 40   634.3  623.8  614.8  605.8  596.8  588.3  579.8  571.3  563.3 555.3
 50   547.3  536.8  529.3  521.3  513.3  505.3  495.8  485.8  478.3 470.8
 60   463.3  455.8  448.8  441.3  434.3  427.3  419.3  412.3  405.3 398.3
 70   391.8  383.3  376.8  370.3  364.3  357.8  351.3  345.3  339.3 333.3
 80   327.8  320.3  314.3  308.8  303.3  297.8  290.8  285.3  280.3 274.8
 90   269.3  264.3  259.3  254.3  249.3  244.3  238.3  233.3  229.3 224.3
100   219.8  213.8  209.8  205.3  200.8  196.3  192.3  187.8  183.8 179.8
110   175.3  170.8  166.8  163.3  159.3  155.8  151.3  147.8  143.8 140.3
120   136.8  133.3  130.3  126.8  123.3  120.8  116.8  113.8  110.3 107.3
130   104.3  100.3   97.3   94.8   91.8   89.3   85.8   82.3   79.3  76.3
140    73.3   69.8   66.8   63.8   60.8   57.8   54.3   51.8   48.8  45.8
150    42.8   39.8   36.8   33.8   31.3   28.3   25.3   22.3   19.3  16.3
160    13.3   10.3    7.3    4.3    1.3    0.0    0.0    0.0    0.0   0.0
170     0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0   0.0
180     0.0    0.0 3877.2
CAL FILE OPR-DATE CODE = MCW771108
                                  PRESSURE SUM = 63877.2 (CK SUM OK)
```

Figure I-3(a). Pressure Table - Baroswitch Serial Number 101-9535

BAROCAL INTERVALS ARE AS FOLLOWS:

25	24	26	24
31	24	24	24
22	29	24	23
21	22	23	22
22	22	21	22
21	21	22	21
20	21	20	20
19	19	19	19
20	18	20	18
19	18	18	19
18	18	18	17
17	17	16	16
16	21	15	16
16	16	19	20
15	15	15	15
14	15	14	14
16	14	14	14
13	17	13	13
12	13	13	13
12	12	11	13
12	11	11	11
14	11	10	11
11	10	10	10
10	10	12	10
8	10	9	

Figure I-3(b). Pressure Intervals - Baroswitch Serial Number 101-9535

INTERVAL ADJUSTMENTS FOLLOW:

0	0	-2	0
-7	0	0	0
2	-5	0	-1
1	0	-6	0
0	0	0	-5
0	0	0	1
-4	0	-1	-1
0	0	0	0
-1	0	-5	0
-1	0	0	-3
0	0	0	0
0	0	0	0
0	-5	1	0
0	0	-3	-5
0	0	0	0
1	0	0	0
-2	0	0	0
0	-4	0	0
1	0	0	0
0	0	1	-3
0	0	0	0
-3	0	1	0
0	0	0	0
0	0	-2	0
2	0	0	

Figure I-3(c). Interval Adjustments - Baroswitch Serial Number 101-9535

ADJUSTED INTERVALS FOLLOW:

25	24	24	24
24	24	24	24
24	24	24	22
22	22	22	22
22	22	21	21
21	21	21	21
21	21	19	19
19	19	19	19
19	18	18	18
18	18	18	18
18	18	18	17
17	17	16	16
16	16	16	16
16	16	16	15
15	15	15	15
15	15	14	14
14	14	14	14
13	13	13	13
13	13	13	12
12	12	12	12
12	11	11	11
11	11	11	11
11	10	10	10
10	10	10	10
10	10	9	

Figure I-3(d). Smoothed Intervals - Baroswitch Serial Number 101-9535

```
BAROSW TAPE HDR: 99999 103 9653 55 0 9811  (CHECK SER. NO.)
ENTER + IF OK & RDY TO PROCEED  --  +

  0     0.0 1065.8 1053.8 1041.8 1030.3 1017.8 1003.3  991.3  979.8 968.8
 10   957.8  943.8  932.8  922.3  911.3  900.3  886.8  876.3  865.8 855.3
 20   845.3  832.3  822.3  811.8  802.3  791.8  779.8  770.3  760.3 750.8
 30   741.3  731.3  722.3  712.8  703.3  694.3  683.3  673.8  664.8 655.9
 40   647.3  636.3  627.8  619.3  610.8  602.3  594.3  585.8  577.3 569.8
 50   561.3  551.8  543.8  535.8  527.8  520.3  510.3  502.3  495.3 487.3
 60   480.3  472.8  465.3  458.3  451.3  444.3  435.8  428.8  421.8 415.3
 70   408.3  400.3  393.3  387.3  380.8  374.8  368.3  362.3  356.3 350.3
 80   344.3  337.3  331.3  325.3  319.8  314.3  307.3  301.8  296.3 290.8
 90   285.3  280.3  274.8  269.3  264.8  259.3  253.3  248.8  243.8 239.3
100   234.3  228.8  224.3  219.8  215.3  211.3  206.8  202.3  198.3 193.8
110   189.8  184.8  181.3  177.3  173.3  169.3  164.8  161.3  157.3 154.3
120   150.3  146.8  143.8  140.3  136.8  133.3  129.3  126.3  123.3 120.3
130   117.3  113.3  110.3  107.3  104.3  101.8   98.3   95.3   91.8  88.3
140    85.3   82.3   79.3   76.3   73.3   70.3   67.8   64.8   61.8  59.3
150    56.3   53.3   50.3   47.8   44.8   42.3   39.3   36.8   34.3  31.3
160    28.8   26.3   23.3   20.3   17.8   15.3   12.3    9.3    6.3   3.8
170     0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0    0.0   0.0
180     0.0    0.0 6053.2
CAL FILE OPR-DATE CODE = MCW771028
                                  PRESSURE SUM = 66053.2 (CK SUM OK)
```

Figure I-4(a). Pressure Table - Baroswitch Serial Number 103-9653

BAROCAL INTERVALS ARE AS FOLLOWS:

24	24	23	25
29	24	23	22
22	28	22	21
22	22	27	21
21	21	20	26
20	21	19	21
24	19	20	19
19	20	18	19
19	18	22	19
18	18	17	22
17	17	17	17
16	17	17	18
17	19	16	16
16	15	20	16
14	16	14	15
15	14	14	14
17	14	14	13
14	16	14	12
13	12	13	12
12	12	12	14
12	12	11	11
14	11	11	11
11	10	11	11
9	11	12	9
10	9	10	

Figure I-4(b). Pressure Intervals - Baroswitch Serial Number 103-9653

INTERVAL ADJUSTMENTS FOLLOW:

0	0	1	-1
-5	0	-1	0
0	-6	0	1
0	0	-5	0
0	0	1	-5
1	0	1.99999999999	0
-5	0	-1	0
0	-1	1	0
0	1	-3	0
-1	-1	0	-5
0	0	0	0
1	0	0	1
0	-3	0	0
0	1	-4	0
0	0	1	0
-3	0	0	0
0	-2	0	1
0	1	0	1
0	0	0	0
0	0	0	-2
-3	0	0	0
0	1	0	0
2	0	-3	0
-1	0	-1	

Figure I-4(c). Interval Adjustments - Baroswitch Serial Number 103-9653

ADJUSTED INTERVALS FOLLOW:

24	24	24	24
24	24	22	22
22	22	22	22
22	22	22	22
21	21	21	21
21	21	21	21
19	19	19	19
19	19	19	19
19	19	19	19
17	17	17	17
17	17	17	17
17	17	17	17
17	16	16	16
16	16	16	16
16	16	15	15
15	14	14	14
14	14	14	14
14	14	14	14
13	13	13	13
12	12	12	12
12	12	11	11
11	11	11	11
11	11	11	11
9	9	9	9

Figure I-4(d). Smoothed Intervals - Baroswitch Serial Number 103-9653

APPENDIX J

FIRST DATA RUN FOR CONDITIONER-DECOMMUTATOR

APPENDIX J. FIRST DATA RUN FOR CONDITIONER-DECOMMUTATOR

The tests on the conditioner-decommutator are described in section 6.2. Figure J-1 presents the listing of data acquired in the first run and Figure J-2 presents the listing of the program used to acquire the data.

51506.079014	62951.464543	51455.079143	63050.46392
78994.063063	422823.051516	79054.062929	464823.05135
78877.063025	464765.051423	78940.062995	464314.051509
79023.062986	464578.0514	78985.063094	464464.051482
79067.063079	464452.051442	78950.063124	464740.051365
78951.079067	63088.463898	51500.078992	63034.464401
51340.079061	63119.463899	79025.063217	463969.051462
78989.063062	464759.051418	78981.074608	63268.417865
51430.079002	63175.428105	79079.063131	464480.051468
79041.063235	449124.051408	79029.063164	464387.051395
78910.063186	465328.051393	78857.06321	399412.051505
78972.063161	379987.05147	78921.063244	464649.051338
78929.063354	464469.051453	78939.063257	465143.051468
78859.071061	63305.465184	79053.063237	465063.051329
79066.063181	464470.051433	79016.063406	464315.051404
79077.063449	464547.051498	79031.063336	464932.05147
79026.063453	464073.051486	78958.063422	465048.051481
79079.063423	464644.051345	79126.063559	464252.051453
79077.063414	465250.051537	79068.063411	465050.051423
79050.063431	464833.051267	79070.063264	465078.051451
79030.06347	464976.051477	79100.063475	464869.051416
79103.063485	372702.051521	79034.063527	464886.051501
79041.06345	465105.051451	79077.079058	63492.465533
51380.079079	63627.465114	79105.063506	465537.051447
47263.063575	465646.051433	79082.063693	465031.051343
79127.063553	464725.051433	78915.079018	63710.465386
51414.079075	63673.465581	51422.079127	63696.063598
465493.051374	79212.063625	464783.051446	79268.063667
465418.051463	79226.063694	465329.051382	79128.079153
63706.436439	79092.063697	465646.051484	79089.079118
63625.465477	46359.07914	44597.46559	46236.079746
63688.465399	78898.063681	465597.051466	79172.063715
70238.051435	79148.063776	466301.051447	79100.079117
63739.466136	46294.079116	63790.46576	51384.079284
63837.063745	465683.051394	79162.063904	395480.051464
79156.063847	465825.051444	79182.063863	446883.05151
79125.063832	466050.051477	79175.063888	465950.051407
79087.063901	351753.051399	79302.057491	466283.051338
79180.063863	466490.051339	79215.063877	465186.051365
79207.07923	63922.46623	51496.055451	63878.466227
79179.06396	465234.051358	79084.063992	466497.046287
79065.063951	466010.051512	79177.063993	466078.051467
79180.063913	466441.046292	79152.079245	64024.06404
466386.051434	79253.063882	386581.051471	79111.063998
466313.05141	79200.064145	465694.051438	71400.064041
465412.051474	79283.064194	465804.041082	79217.064177
465526.051403	79210.064086	466301.051434	79143.064058
465409.051361	79204.06416	466443.051456	79278.063974
465906.051371	79250.064061	465697.051335	79154.064014
326118.051463	79108.064112	466775.051454	79106.064167
466213.051443	79094.064134	466114.051459	79123.079249
32106.064169	466246.051432	79303.06432	465618.051379

Figure J-1. Wallops No. 3 Data Acquired in First Run of Conditioner-Decommutator (Page 1 of 18)

618240.442338	51490.078882	61650.441094	51479.031597
61796.442124	51543.079166	61786.441845	51444.079142
61801.061889	398015.051478	79236.061711	442209.051496
79292.061815	442204.051444	79588.076036	61785.442437
51535.079523	61725.061844	442981.05142	79453.061867
443126.051449	79586.061798	443935.05149	79611.071561
61829.061815	444282.051284	79681.061897	443886.051659
79663.079688	61905.444563	51447.079747	62006.444654
51342.079661	61981.445653	51437.079844	61851.445707
51480.079884	61837.061875	445627.051536	60007.061829
445925.051478	79998.05575	459939.051417	79855.071955
61984.061814	446536.051369	79946.061877	447388.051505
79987.055798	448533.051579	79939.061994	448623.05151
79984.062034	449999.051475	80203.062077	451263.051388
80090.062017	451904.05151	80249.062021	452741.022912
80143.062009	453199.051377	80348.08019	62100.043361
454077.051481	48144.062104	455358.051448	72037.040006
62228.432973	14.080162	62031.062062	456681.051497
80115.062131	458801.05146	80169.062047	459137.051488
79884.062033	459724.043423	80136.061939	460496.051365
80025.062095	460519.05147	80063.080061	62112.461408
51541.08004	62136.062278	460974.051374	80063.062261
460691.05146	80166.062273	462249.051439	79935.062244
462159.051451	80109.060152	62134.046224	51447.05151
62201.463603	51437.079787	62323.463535	79772.062275
463854.051481	79604.062419	457959.020539	79695.0623
463572.051485	79572.062271	463828.051397	79595.062448
463674.051263	79411.062426	463606.020577	79611.062428
463767.051427	79486.062454	324495.051398	79558.062498
464105.051423	79474.062507	463704.051412	79558.062065
463514.051514	79571.062524	464336.051494	79291.07931
62530.445073	79510.062476	463439.051517	79495.022175
442763.051551	79484.062497	440518.051503	79486.062542
463712.051494	79343.062587	464244.051414	79240.062564
464236.051528	79341.062492	464337.051339	79395.062648
463781.020575	79312.062673	463982.051422	79409.079418
62587.464019	51475.079308	62740.464243	51435.079183
62669.253094	51419.051509	79277.062612	464196.051469
79304.062631	463621.051392	79325.062739	463963.051453
79207.079174	62679.464525	51367.079337	62717.463913
51381.079389	62663.464496	51468.079331	62695.464083
79161.043911	463429.051414	79451.062732	463820.051475
79315.062774	464201.051445	79350.062764	463771.05142
79208.062785	464110.051455	79283.062775	385136.051428
79227.062839	232506.051451	79240.062872	464951.051413
79095.062885	464285.051426	79203.062756	464726.051459
79160.062782	464255.051366	78980.062825	464151.051486
79150.062839	464269.051453	79166.062971	464052.051438
79211.062861	464341.05155	79159.062921	464125.051459
79182.062969	463982.051348	79282.063048	463987.051415
79119.062989	464681.051338	79128.079102	62918.463743

Figure J-1. Wallops No. 3 Data Acquired in First Run of Conditioner-Decommutator (Page 2 of 18)

79151.064232	466404.051431	79116.032124	465792.051443
79246.064085	466213.051454	79253.064189	466130.051381
39425.064311	465562.051424	79242.064366	466207.051468
79253.06433	466371.051413	79157.019313	466133.051401
79246.079128	64284.466021	51389.079237	45081.465912
51363.079282	64392.466384	51417.079119	64267.466928
41183.079192	64364.465626	51451.079294	64463.466095
51342.079258	64334.466161	51496.079146	64429.064463
466051.051299	79149.064405	326688.051431	79132.079186
64430.466629	79052.064405	466721.05146	79184.064409
466231.051341	79162.064523	466276.051355	79187.064519
466031.051386	79224.06445	466201.05133	79046.064528
442706.051424	79172.064548	466169.051441	79350.064502
465984.051425	12211.064604	466244.051409	79134.064543
466752.051482	79232.064593	466718.051459	79210.064603
466220.051205	79244.07933	64498.46606	27972.07932
64581.46616	79208.064663	466140.051373	79188.064604
466469.051458	79089.079115	64565.372333	51443.079101
64647.466562	20860.079046	64624.466561	46310.07903
64665.423527	79013.064708	466798.05132	78947.064735
380928.051445	78952.064648	371941.051482	79056.06467
465822.051381	78894.064797	465683.051439	78944.079019
64796.465557	78930.064859	465787.051403	78827.064857
465261.051403	78707.064745	420852.051432	78891.064783
465509.051448	78837.064848	465459.051344	78849.064864
338118.051439	78855.064824	465540.046292	78754.064883
465196.051264	78675.078747	64885.064856	367048.051439
73745.06494	465461.051434	78837.00001	465000.051323
78600.064937	466149.051403	78585.064826	465190.051427
78683.0474	64869.465293	51427.07876	64933.465471
78713.078416	64929.465267	51463.078616	32474.465439
51359.078528	65002.065036	465088.051364	78721.065002
465328.051308	78750.078739	64967.464824	78569.065054
465211.051387	78670.065079	465222.051456	78663.06523
232872.051336	78688.065036	464987.051424	78683.065074
325743.051422	78770.065036	465138.051367	78744.065163
464965.051373	78675.058609	465779.051452	78642.065081
465838.051441	78664.065128	465444.030765	78548.078736
65034.065127	465435.051465	78616.065053	465854.051303
78672.065171	465263.043881	79703.065169	466027.051421
78685.065065	465454.05136	15728.078587	65141.465272
51456.078688	65198.06165	465276.05142	78696.065294
418572.051368	78740.065186	465851.051401	78533.065204
465477.051487	78655.078707	65308.465729	51493.078771
65135.465228	51476.078594	65310.465319	51323.078777
65345.465736	51427.078644	65348.466098	51483.078793
65327.46527	78824.06536	465407.051487	78769.078789
65343.465842	78662.078605	65494.465671	51400.078679
65401.065138	466346.051438	78601.052133	466041.051441
78616.065373	466081.051262	78837.065384	465913.051395
78726.065375	465656.051389	78737.06537	465579.051455

Figure J-1. Wallops No. 3 Data Acquired in First Run of Conditioner-Decommutator (Page 3 of 18)

78686.065436	466215.051333	78541.065422	465770.051448
78647.065471	466207.05143	78813.06547	116853.051339
78647.065568	465867.051358	78661.065246	466367.033131
78773.078817	65319.465678	51481.078699	65462.465969
62986.065552	466135.051474	78685.065608	466111.051381
78812.065589	422666.051367	78752.078632	65562.466806
51416.00001	65617.465939	51409.078859	65579.466487
78695.065559	466631.051389	78780.065653	465803.051385
78842.065776	466438.051368	78566.065616	466469.051415
78709.065591	465924.051299	78720.078739	65763.465772
54941.065791	466556.051326	78629.078796	65642.466236
78648.065751	466452.046264	78763.065768	466283.051383
78737.065713	466474.051424	78744.065682	466210.051254
78821.065804	465861.051328	78690.065694	466746.05132
78675.065782	465936.051424	70839.065895	466433.051385
78783.078826	65609.466986	51475.078394	65842.396932
51346.078899	65801.065781	466657.051331	51581.065856
467575.051434	78696.065794	373336.051433	78635.065928
466316.05137	78862.065949	466915.051398	78744.065927
466455.051441	78747.065922	466341.051329	35098.066001
466475.051421	78778.065917	466728.051431	78907.066008
466092.051394	78499.066035	466829.05128	78769.065823
466407.051278	78825.065977	466515.051335	78659.066026
466889.051365	78726.078721	65949.466993	51488.078733
66016.466391	51355.078618	66145.466495	51386.07861
66123.467419	51444.078587	65997.466627	58607.078746
42703.066168	417221.05119	78665.066061	466901.051421
78573.066101	466813.051342	78786.078746	36678.466392
51332.078694	66185.466829	78713.066153	466682.051423
78731.059596	466391.051352	78721.066274	466603.051362
78754.066316	466000.051406	78726.078707	66278.466652
51363.078679	66289.4666	51407.078658	66197.466563
51457.078754	66204.066258	466199.051365	78659.066323
466063.0513	42969.013239	466810.051294	78553.066284
466926.05138	74980.019919	466327.051444	78571.066314
467056.051424	78531.066272	466443.051397	78592.070765
66338.466382	51412.078473	66389.36865	78476.078516
66343.466275	51425.078528	66350.466205	51365.078669
66378.466474	51421.078266	66480.066533	465924.05133
78657.066407	466129.05131	78489.066439	467240.051397
78602.06645	466698.051429	78701.078677	66350.466336
51348.078653	66526.066363	466377.051365	78606.059867
354583.051271	78613.078478	66427.466856	51414.078633
66445.435893	78620.066548	466656.051484	78683.078492
9696.467053	51398.078498	66660.466518	51334.078634
66555.036881	466371.051397	78565.066559	467373.046284
47088.078598	66560.466668	51418.078615	66575.466784
51421.078595	66653.066581	466622.051336	78557.078565
66715.465913	78496.066671	466642.051331	78496.066742
466609.051372	78508.066593	466660.051217	78593.066709
466785.051346	78345.062956	66711.466937	51379.078578

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 4 of 18)

66388.46708	51426.078551	66715.466912	51314.078616
66756.066716	466703.051404	78692.066739	466749.05131
78588.066821	466597.051401	78665.066902	466751.051331
78581.066791	467254.051444	78538.060102	466508.051457
78630.066852	397689.051348	78533.07851	66794.467186
78557.066901	117799.051333	78721.078511	66873.467059
78539.066902	467391.051366	78493.066906	419429.051397
78707.066974	466774.051432	78746.078636	66905.46697
51362.078537	66969.466454	51370.078532	66969.467351
48602.078416	66928.466517	51381.078442	66981.472483
78574.066899	466979.051356	78630.066968	466618.051357
78552.066994	467120.051348	78506.067064	467022.051403
78611.078628	67016.467154	23426.078522	67084.467306
51385.07657	66989.467082	51396.078673	67200.067041
466799.051366	78524.067064	442721.051343	78535.067007
373126.051329	78673.067096	467331.051251	51510.067057
467183.051373	78389.016559	466963.051325	78591.067207
466852.051255	78505.078525	67322.467801	78461.067124
467245.051372	78674.06716	420690.033126	78597.067267
467289.051365	78657.067238	466956.051424	78599.06711
467251.051348	78587.06729	466968.051385	27092.078566
67158.467365	78604.06725	467225.051395	70556.078571
60592.467131	78465.067299	467638.051343	78439.078508
67356.467761	78614.067245	467126.051424	78593.055021
67277.467972	51347.078505	67420.467335	51380.078617
67381.467307	51397.078427	67354.378394	78608.06747
467357.051423	78603.078505	67434.414808	78530.067372
467446.051347	78498.067485	467543.051317	70789.067385
467322.05141	78539.067536	467980.051322	78542.00675
467877.051392	78478.067415	467968.046222	78657.067515
467607.05131	78415.067567	467738.051438	78587.067451
418934.051451	78504.067523	468205.051414	78752.078526
67329.461408	78568.067453	468277.051398	78409.078533
67632.467997	51368.078648	67632.468619	51365.078439
3070.468579	51340.078518	67613.468053	46312.078529
67599.468523	51368.078573	67711.468041	46498.078689
67698.468203	51407.078501	67709.466618	78524.078617
67666.453653	78554.067627	468789.051283	53029.067581
468323.051378	78647.067773	468389.051327	78663.067727
468995.051342	78547.067781	468906.05129	78629.067758
468380.051425	78500.067722	442426.051376	78575.067844
468884.051315	78741.078535	67785.468697	51330.07859
67759.422738	46143.078564	67857.46905	23425.078769
67768.391928	78664.067893	374852.051335	78823.067979
468149.051407	78856.067927	468976.051405	78704.068015
469270.051382	78723.067884	468573.051405	78784.06794
468854.05129	78849.067929	468775.051414	78848.06795
434395.051386	78810.078737	67924.469361	78837.067998
469304.05141	78732.067992	469728.051269	78764.067915
469481.05138	78773.068032	469231.051294	78766.068015
469644.051336	78627.068118	469754.05131	78744.067978
469000.051338	78726.068048	469710.051332	78743.068011

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 5 of 18)

469117.051235	78714.068218	469412.051334	78655.068125
469621.051363	78743.078814	68125.469473	51518.078842
68189.469359	51360.078789	68182.422493	51399.078789
68221.469778	78936.068202	469085.030762	78727.068321
469354.051323	78855.068148	469097.051484	78993.068149
469320.043909	78904.068245	469216.051346	78799.068264
469620.051426	78969.068325	469081.051376	79034.068428
469863.051367	78877.068258	469588.05143	78977.068342
469043.048503	79065.068409	469323.05131	79021.061656
468911.051316	78922.07894	68459.211561	51332.00001
68381.468703	78895.0685	469116.051344	79027.054764
468675.051387	78968.079013	68428.068442	344658.051333
79044.068374	377201.051336	15772.079102	68388.469252
51435.078966	68417.234492	51323.079127	68551.327992
51405.079121	68497.068495	468379.051275	79124.037363
468320.051312	79101.068622	468682.051313	31638.07916
68484.068687	468307.051387	78906.068469	468680.051277
79199.062575	467937.051381	79078.079201	68631.468081
51340.079062	68455.467915	51367.079265	68701.399447
79139.068597	468152.051367	79138.079229	68609.467025
51398.07931	68698.466872	51385.079237	68781.466939
51324.07921	30635.068582	420079.051387	79315.068616
93215.051342	79239.068614	467074.051323	79197.068765
466279.051408	79178.068763	466038.05132	79453.068658
465737.051318	79455.06882	466420.051226	79316.068748
466088.046203	79372.068859	466050.051342	79322.068846
466005.051427	79257.06878	465721.05133	79220.079283
68895.466065	51388.079377	68749.465972	46209.079309
68842.465658	51360.079486	68868.465224	51409.0795
68985.465349	51217.079365	68888.471272	51278.051324
79298.079436	62074.465481	51499.0795	68989.068973
465248.051388	79335.068917	465063.043944	79463.062022
461401.051261	79553.079347	68998.464984	51273.079404
69037.465158	79476.079512	69003.465303	51377.079491
69032.465114	51371.079557	69065.464975	51376.079554
16995.069092	465162.051301	79496.079535	38311.465255
51373.079474	69147.465697	46257.079529	69051.069095
465367.051393	79535.079514	69122.465089	51364.07964
69145.465962	51275.079594	69330.465659	51240.079646
69135.069155	465404.051295	79561.069177	465325.051429
23927.07948	69321.465174	51386.07973	69193.464778
51361.079646	69332.069214	465190.0513	79597.069378
464698.051342	79694.069273	465625.051382	79703.069331
465302.05132	79800.069346	465441.046232	79777.079792
69276.465349	51356.079743	69441.465389	51351.079711
69390.465754	51420.079667	69272.466053	51406.079635
38492.069419	465857.051206	79740.069381	465833.051344
71677.079779	69352.46624	51344.079635	69413.465656
51333.079772	69442.069395	465824.051411	71725.069339
475327.051399	79861.069505	464408.051402	79961.069366
325157.051332	79921.069622	278508.051336	79857.048719

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 6 of 18)

464303.041109	79891.069584	464451.002303	79837.069547
411463.051303	80039.069587	370863.051356	79993.069567
463394.051324	80010.069639	463275.051355	79884.069545
464146.051272	79848.069614	463277.033135	80095.069582
463272.051274	79915.069699	364907.051367	79905.069621
463218.051331	80047.06955	408029.051293	79926.069663
463197.051376	79998.069692	371250.051376	80006.06963
462383.051408	80083.069802	413645.051249	80092.069856
395285.023398	80084.069701	369931.051372	80019.069794
461825.051352	80076.069826	462290.051284	80125.069703
461771.051316	80059.06987	461816.051311	80152.06979
231158.05121	80069.0699	461325.051327	80184.069949
460793.051353	80057.069859	460825.051391	80060.069831
460702.051357	80039.070052	459748.05133	80017.06997
460234.051325	80089.069952	460045.051381	80042.069941
183848.051315	80260.070016	459578.051294	79983.070074
459380.051262	80166.070006	459058.043883	32017.070125
459646.05127	80038.070166	459288.051362	80059.070021
459313.051335	80110.070066	391446.051301	80092.070204
458818.051309	11.00001	69971.459394	51294.080091
38657.014013	459233.05137	80124.063056	459567.051379
80138.070072	458997.051357	80201.070083	423251.051279
80169.070244	378291.051348	80211.070231	459867.051336
56179.070063	458929.051358	80267.070164	459119.051419
80326.080198	70209.458734	51363.08012	70368.45866
51314.08038	70137.459242	51258.080289	70381.43622
51423.080349	70288.160927	51375.080451	70320.458166
51309.080335	70334.45797	51413.056291	70359.412326
51197.080293	70336.458423	51235.080423	70382.457252
80392.070254	457517.051393	80429.070306	456672.051315
80375.070423	411438.051305	80283.070332	457656.051318
80330.07036	456797.025644	80314.070433	456817.051419
80332.070386	456982.051362	80379.070333	388466.051292
80399.063383	456909.051304	80426.070447	456929.051283
80448.070432	455880.051334	80420.080333	70527.456456
51195.080339	70571.422309	80443.070597	456440.051386
80501.070615	456679.051363	80384.070651	456980.051324
80529.070515	456955.051415	52755.080546	70602.456039
51292.080647	70738.456062	51346.080645	70665.456102
51351.080573	70679.455665	80603.07056	455808.043965
80578.070616	456207.051384	80646.070765	455669.043322
80486.049425	455798.051455	80562.070596	413857.051324
80627.070757	455720.051324	80717.08058	70694.455317
51360.080735	70821.454619	51318.080825	70806.07069
454027.051382	80728.070848	453240.051311	80663.070961
451970.051298	80779.070912	450081.051408	80725.070781
446419.051245	80798.070873	446718.023358	80705.070856
353601.051315	80793.070831	440197.05132	80828.072713
71004.436976	51413.080865	70872.434326	51399.080695
70878.43111	51355.08103	70926.428727	51373.08089
70962.070963	427401.051329	80775.071044	425763.051311

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 7 of 18)

80885.070888	423618.051343	80782.070917	422272.051124
80835.070899	420764.051355	80972.070969	210291.051362
80801.014241	419238.051285	80892.071055	418382.051369
80857.071017	417602.051449	80773.071207	417029.051313
80922.07123	416757.0513	80909.071195	243732.051232
80845.071066	416875.051317	81073.014251	416698.051408
80841.071085	416534.051295	56709.07126	416108.051316
81080.071235	416566.051373	81059.081069	71253.41621
51264.080968	71312.416433	51338.081011	71258.410031
80898.071266	416352.051317	81135.081122	71212.416775
51280.080958	71377.417177	51272.081089	71211.071455
417241.051339	81131.071402	418256.051389	36187.081035
71388.246085	51302.051314	81167.071489	419562.051421
81204.071399	420426.051355	81111.000015	71525.126064
51346.081155	71471.00001	51381.051323	81147.028564
421472.051399	81213.071456	421399.051271	81330.071554
421971.051401	81065.081121	71538.42196	51315.081235
71567.422144	51397.081176	32474.071504	423314.051353
81212.071602	422617.051353	81309.071507	422598.0514
32532.071541	423597.051275	81160.071682	422645.000013
81234.071634	423870.051257	81245.071584	424184.051249
81219.000014	43008.423956	51397.081217	71540.424164
51422.08113	71638.424773	51299.081399	71691.425758
51414.048718	71622.427282	51344.056861	71653.426657
51354.081357	71629.427637	51314.081441	71611.428406
40677.07181	428808.051201	81311.081397	71587.387082
51320.081216	71630.430472	51366.081398	71811.430957
51426.081363	71692.431233	51229.081315	14335.032029
431047.051289	81340.071879	431490.051275	81340.071862
432254.051326	81291.071911	431392.051338	81360.07185
216529.051405	81474.067882	432513.051361	81347.081392
71993.432531	51357.081428	71710.433442	51333.081416
[illegible]000.433322	51308.081453	72022.433433	51341.081568
[illegible]875.434005	51266.081557	71995.433397	81681.072055
434012.05134	81498.072002	434878.051192	44608.081495
71988.434318	51356.081526	36008.435232	51356.081658
72078.435314	51321.081365	72218.435355	51334.081641
71866.071953	436635.051259	81587.072195	437174.025687
81660.072109	436055.046227	81721.072108	393666.05157
51359.081707	72177.393646	81635.0817	72275.436876
51322.081651	72264.072078	437856.051206	81718.081709
72288.437596	51344.081813	72235.072192	438580.051306
81734.081724	72383.438481	51291.081778	72360.438624
51322.081844	72235.072253	439082.051349	81692.072274
439085.051294	81905.072237	438638.051424	81830.072279
438780.051266	81948.07241	439520.04616	81965.072374
439523.051331	81797.060964	72387.072465	439726.051247
81966.072401	440081.051343	53594.08184	72256.110514
51194.051312	81871.072353	438770.051177	82013.072457
438845.051278	81868.072404	438498.051196	81849.072501
438117.04618	81898.072426	438152.051378	81904.072528
438103.051216	82082.072543	437600.051239	81981.010573

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 8 of 18)

438122.051291	81965.072474	394533.051206	82105.072569
438618.051304	81916.072502	395068.043875	81932.072656
438347.051352	82094.07257	439060.05133	81976.054271
439071.051225	81954.081969	72766.438978	51312.057442
72554.072577	439400.051395	81917.072709	439975.051302
82041.08208	72765.43995	51330.081828	72746.440165
51298.081937	72664.072883	439614.051206	82043.065541
439032.051375	81950.072791	438238.051267	81948.072878
437092.051302	82141.082088	72788.065972	51296.051359
82069.072921	437050.051243	82143.072959	326040.051214
82547.082008	72740.437955	51313.082035	72767.437429
51288.082266	72876.436997	51312.082142	72966.436753
82162.072924	436344.051377	29098.072948	437202.051352
82128.072988	436745.051366	53751.082146	72971.436436
51264.082281	72921.436334	51298.082124	73070.435872
51228.041162	72912.435831	51226.082155	73013.261618
5128.082183	73178.073069	435208.051242	82244.082338
73054.435284	51304.082292	73204.425629	82381.073215
434498.051358	65818.073147	435634.051282	82189.073163
435211.018267	82301.08235	73041.434923	51331.082424
73095.435226	51406.082292	73211.434556	51287.082349
72947.073196	434965.051347	82263.073174	348874.05133
82248.073167	435212.051458	82388.073182	87081.0513
82429.073245	435586.051212	82477.082516	73278.217778
51353.08248	73212.306059	51227.082375	73373.435798
51295.082707	73271.436145	82448.073202	436274.05116
82225.073466	435724.051168	82683.07337	436623.051305
82411.073336	436986.051352	82501.07335	435715.051206
82742.07333	174679.051341	82523.073352	436050.051161
82668.073448	436463.051284	82612.073422	437738.051245
82460.073429	437003.051237	82496.073451	437140.051195
82590.073375	437010.051427	82619.073459	436670.051277
82716.073468	437242.051297	82587.073528	437742.051169
82719.073498	436976.051279	82707.082721	73574.437995
51215.082604	74413.437176	51334.082707	73649.437329
51315.08278	73440.438552	51268.070722	73584.438257
51312.049699	73600.073619	438356.051252	82978.074503
73571.438736	51257.083021	73751.438851	46050.082929
73696.439997	7362.082741	73769.463282	51314.083053
73650.44021	51381.082817	73759.440171	51158.082551
73888.439906	51342.082775	73813.440497	51292.082947
73633.441215	51253.082894	73800.073765	440945.051318
82945.073814	441635.051277	82922.073911	440123.023355
83146.073892	439971.051291	83076.07393	440800.051325
82811.082853	74073.439989	51283.08314	73969.073912
439634.051422	82959.073936	440832.051308	83089.07405
440122.05132	74661.073891	440570.051384	41552.083055
73955.440572	51313.083198	74097.073953	440727.046287
83265.073915	441051.051322	83038.074125	440590.046096
83235.074055	440778.051206	83215.074158	441319.051059
83206.083264	74194.441376	41034.083084	74159.074088
353097.051337	83173.074083	441403.051188	83195.074044

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 9 of 18)

440861.051305	83378.083259	74076.441578	51363.083267
74203.441549	51326.083293	74275.441898	18205.083205
74237.442044	51253.049858	74298.442174	30782.083512
74330.442335	51351.083258	74242.074237	442516.051194
83403.074053	443204.051289	83452.074244	442832.05132
83313.074231	442731.051242	83388.052061	442204.051375
83408.07435	442214.051286	83328.074383	441894.051241
83360.074384	442164.051333	83444.074309	441524.051272
83393.07446	441142.05129	83564.074311	441202.051254
83457.074433	439348.051268	83667.074538	438051.051261
83438.07442	438546.051303	83357.074393	43764.05107
83684.074535	436107.051329	83585.083625	74535.434698
51391.083609	74676.433303	51272.083579	74443.431401
51276.083612	74645.427497	51336.083602	74532.386626
83546.074558	387602.051298	83549.074682	417158.051256
83663.074616	393749.051341	83503.074749	419056.051269
83449.074745	397040.051343	83545.074689	366544.051208
83570.074708	404811.051143	83567.074848	401679.051261
83600.074844	401097.051327	83435.074819	404159.051291
83606.074845	400300.051391	83636.074849	400093.051332
83612.074853	399265.05133	83756.074825	398454.05128
83591.074821	397444.043193	83683.07489	395446.051327
83674.074809	395400.051418	83769.074916	394285.051215
83479.075033	392745.051277	83781.074964	392008.051386
83567.074963	389292.051298	83768.075022	385729.051336
83646.074835	383143.051297	83752.07501	377795.051269
83696.075059	368641.051235	83756.075083	356672.051256
83757.075079	345170.051324	83796.074957	336911.051194
83755.075063	164727.0513	83829.075157	320645.041034
83958.083863	75242.31364	51337.083737	75202.308001
51269.083866	75176.030103	302104.051319	83833.075211
297340.051274	84009.075235	291933.051275	83691.075232
286396.051319	50266.08377	75023.272991	51303.051265
37394.083866	75345.260407	51361.041062	83833.075261
253893.051366	83877.07527	247086.041059	83906.083844
75302.24154	51211.083785	75371.094785	51263.051208
83705.075328	231072.05131	83876.075268	227843.05122
25235.083626	75378.225309	18219.083802	75440.222675
51278.041053	83666.075425	221108.051301	83812.07548
220816.051258	83923.075478	219667.051213	84006.083896
30161.052772	217682.051272	84014.07549	215447.051227
83990.075507	214577.051291	83946.083665	75483.214026
51261.083891	75649.212626	51163.051269	83949.045344
211325.0514	83915.057018	210985.051312	83914.083886
75517.210212	51331.051349	83980.075541	210253.05131
83824.075605	210046.051279	83870.07565	209683.051264
83851.083723	75553.209278	51317.051319	83721.083828
75602.207847	51299.084018	75624.207739	51272.0839
75725.207297	51275.084099	75731.206347	51236.02341
8321.083948	75699.075699	206197.051285	83897.075716
204709.051278	84034.075706	203445.051344	84104.075687
202552.051225	83967.07588	202157.051228	83856.075746

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 10 of 18)

201676.051321	83884.075759	201591.051354	83906.075907
201627.051348	84057.084093	75715.201707	51362.083877
75971.201346	51207.05134	84083.075917	200384.051263
75611.075862	201397.051231	84068.075908	202497.051354
84096.075911	201875.051306	84192.084169	75926.180284
51212.051278	58755.083994	76068.198911	51173.051285
84162.075965	199191.051272	84155.076164	198753.051256
84253.07601	198570.05104	84309.075885	59550.051227
84266.076076	199008.051229	84280.07604	198776.051237
84215.076014	198661.051219	84164.076114	199145.051439
84348.076024	198070.05134	84275.076122	196737.051282
84461.084392	76166.194413	51288.051299	84338.075961
193463.051241	84214.057529	179504.051303	84210.084269
76152.183156	51332.051387	84200.076215	181863.051233
84206.076369	178559.051226	84207.084349	76294.175765
51275.051339	84046.076331	168481.051272	84175.076249
164713.051419	84181.076325	163070.051083	75865.076321
161610.00001	84207.057612	160532.051228	84175.0763
160189.051238	84093.076411	160139.051317	84178.076319
160098.051339	84023.076311	159993.051266	84157.076443
159430.05127	84307.083965	76480.159332	51296.051328
71787.07643	159278.051273	84180.084059	76438.156434
10312.084185	76463.076403	155897.051211	84072.084061
76495.061581	51311.038186	84136.050498	76520.152641
51246.051274	83987.076545	152099.051253	84042.076613
149798.051351	83981.076571	145646.051373	83959.076686
144282.051235	84033.07661	142741.051229	83917.076644
141519.05123	83989.076599	140632.051314	84335.083998
76619.112605	51324.051392	84057.083961	76626.139094
51327.051347	84038.076689	135586.051362	83977.076644
133355.05135	83941.076879	131651.051322	29779.084027
76804.127129	51335.051325	83982.076583	122024.051324
83938.069155	118520.05112	84029.076813	114095.05127
83958.076739	11579.046553	51270.051249	83966.083904
76930.117473	51228.05129	83869.083844	76858.114679
51253.051292	83822.07694	109605.051315	83870.076932
21304.106603	51295.083875	76821.057362	51213.051371
83812.053941	82545.05125	83774.077008	102549.051288
58634.083744	76956.102097	51332.051329	83730.076991
101516.051322	83767.077016	70302.051344	83727.07694
100060.051288	83731.077157	100503.100369	51298.083528
77011.099598	51318.083555	77050.09792	51250.083586
77160.077111	96881.051352	83797.083548	77103.095941
51305.083492	77227.077054	95405.051216	83558.077148
95311.051197	83448.077175	95535.051303	83529.077336
94522.051265	83427.077207	93708.051267	83524.077184
51880.093468	51193.083527	77305.093666	51265.051238
83395.035138	32355.093287	51297.083352	77260.093262
51249.051311	83416.077227	93353.051187	53742.077173
46821.093646	15417.083384	77370.093721	51285.05133
83337.077336	93471.05131	83076.077368	93175.093118

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 11 of 18)

10265.083329	77366.069618	93106.051318	83474.077296
93184.051331	83339.077408	93112.051311	83084.077486
93207.093196	51356.074934	77354.093408	51214.083129
77471.093721	51284.083188	77539.093722	51352.051295
83083.0776	93354.051296	83228.077672	93035.092989
51215.0832	77539.077543	93210.051298	83156.083072
77700.093468	51261.051288	74917.077565	93289.051368
83127.077491	93124.000009	83106.077689	93085.051317
49684.083054	77651.092901	51324.082943	77783.093073
51264.051191	83038.083091	77689.092878	51331.051273
74830.077721	92876.05131	4542.077673	92906.051206
83102.077728	92808.051306	83218.077793	92935.051254
83098.077821	92977.051266	83009.083009	77786.092419
51315.083066	77807.092571	51296.083112	77982.092459
51288.083118	77940.092467	51280.083047	77952.07789
92761.051217	58179.077964	93308.051334	83063.077749
94114.051342	82945.077933	92604.051316	83103.077859
92589.05129	82857.077984	92432.051331	82925.077957
92363.051273	83052.077976	22695.051299	83005.07794
92371.051315	83122.077984	92191.09218	51325.083256
78098.092149	51277.051264	83129.07809	92016.051241
82904.078149	91820.051289	83026.078131	91313.05131
82876.082997	78122.091323	51156.083068	78118.091286
51337.051202	45322.083041	78225.091131	51308.051214
83080.078247	90941.051305	82945.078227	90176.05118
83096.082884	78107.088902	51322.05128	82938.078194
88134.051305	82965.078151	61558.041018	83001.08273
78306.087761	51266.051291	82866.078327	87520.051268
82762.078309	87360.051339	82792.082672	78246.087374
51334.082863	78173.087545	51259.051283	54200.078286
87709.087698	51231.082863	78449.087987	51317.08271
78272.088288	51282.082685	78335.088164	51090.051263
82726.078377	87977.051302	82714.078476	88159.051254
82829.078616	88160.051214	82767.078405	88414.051237
82742.078471	88534.043308	82757.07848	88846.051356
82647.078501	89671.089665	51299.082726	78557.031751
51234.051289	82656.078615	89575.051256	82614.078489
89473.051203	82559.078648	89373.089575	51295.082538
78530.090702	51358.082646	78465.090603	51256.082647
78608.090968	51231.082565	78679.078658	91015.041018
82587.078573	91719.051236	82474.078668	91986.051326
82478.000017	91872.051279	82672.078704	46118.092269
51263.082548	51537.093252	51227.051262	82545.078497
94268.05115	82664.078708	94963.041042	82663.078681
95428.051289	82636.078772	95591.051308	82760.078782
95888.051324	82712.082386	78811.096014	51258.082411
78846.096552	51239.051221	82567.078728	98013.051317
82476.078793	99286.051135	82591.078777	99210.051192
82695.078856	99840.051319	82595.07894	101051.051244
82720.063133	101740.051257	82521.078836	102894.051305
82762.079101	104011.051311	82737.078878	104379.015387
82540.079013	62792.104839	51258.082774	78887.105693

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 12 of 18)

51207.082635	78973.105886	51254.0827	79040.106764
51241.082703	78982.079061	107315.051209	82738.079074
108950.051204	82694.079143	110137.051286	82645.079153
111222.051288	82665.079022	112723.051248	82780.079012
113225.051149	66129.082699	78963.113844	51297.08255
79278.114252	51146.082723	79215.079296	115132.051225
82654.079261	115778.051338	82573.079231	116030.051297
82730.079205	116459.051223	82743.079323	117792.051217
82738.079435	118391.051259	82710.079239	119017.051212
82625.079374	118994.051116	82649.079295	119490.051307
82814.079349	119555.051247	82728.082809	79470.119745
51154.051232	82722.07947	120161.051236	82566.079333
121409.051231	82682.079455	123469.051337	82752.079408
125496.051276	82734.07945	127366.051263	82565.082763
79521.129463	51233.051251	82751.082579	79518.059323
20478.051266	82760.07959	132084.051241	82818.079593
133685.051205	82812.079659	133727.051236	82815.028169
133224.051267	82604.082518	63710.133117	51230.051208
82550.079486	129760.051206	82698.079656	123095.05132
82696.079496	119341.051104	82718.079559	116224.051197
82702.079697	117691.04388	82622.079655	122922.051252
82529.079734	124617.051195	82572.079645	125029.051376
74203.079696	124262.051206	82913.082571	79695.079679
124219.051283	82327.079771	125205.051234	82485.075958
126163.125898	51242.082581	79802.126887	51242.051237
82487.079785	129323.051249	4506.082421	79923.0581
51225.051326	82636.079911	130804.051247	82485.079911
132872.051151	82490.0826	79931.079835	137463.051224
82539.079788	146291.051298	82498.079898	155882.051025
82717.082682	79941.160359	51319.082494	79909.168027
51215.082466	72116.174362	51285.082457	79921.183371
51309.051229	82428.080037	190251.051256	82497.080034
194430.051159	82479.079954	198853.051232	82384.082476
80165.202775	51170.051254	82459.08013	185128.050949
82508.080042	209175.051279	82371.080188	211145.051291
82543.08015	214031.051303	82597.080151	218253.051237
82489.08042	220994.051242	82505.082462	80223.222542
51247.082443	80176.222932	51210.051211	82456.082492
80169.223306	51155.051297	82614.08013	224827.051339
65850.080285	233982.051188	82483.082433	80310.24059
51247.051339	82384.080295	243116.051197	82376.080397
261901.051311	82417.080326	284279.05123	82427.080265
291564.051185	82469.080408	293170.051257	82521.080241
298162.051289	82429.080484	316727.051201	82547.08043
337151.051246	82553.080521	349550.051228	82566.080629
252510.051272	82685.080513	383075.051248	82487.082485
80517.403734	82525.080467	431160.05122	82422.080402
451999.051281	82492.080583	464717.05125	82415.080652
378887.051318	82555.080552	480347.051167	82479.080602
484533.051293	82520.080638	486145.05138	82586.080698
487727.020526	82805.080732	489025.051099	82583.08071
490429.051185	82525.080705	491074.046059	82539.080744

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 13 of 18)

492626.051275	82477.080641	205470.046171	82582.077045
493309.051295	82718.080818	494286.051305	82729.080856
494962.051173	82580.080871	495874.051274	82657.080767
496978.051296	82757.082574	80796.497784	51149.082819
80867.497703	51249.082582	80963.498779	51214.082697
80998.498938	82663.080939	491284.051314	82739.080953
499872.051321	82810.080929	499771.051297	82936.080989
500314.051237	82878.081054	500253.030737	82845.080978
500761.05125	82805.056703	500860.051303	82825.044193
425992.051267	83001.080983	500610.051282	82894.081216
500809.051226	83012.048783	500757.051223	82767.081066
401331.051248	82956.074579	81137.500796	51270.016629
81177.501426	51117.083152	72985.081126	501202.05118
82893.081228	501256.051261	83097.081132	501510.051242
82953.081218	502111.05129	83012.081278	501341.051323
83170.082919	81156.501412	51077.083062	81270.501763
51192.083071	81315.501768	51269.083006	81292.501867
51143.083078	81401.50162	83014.081367	385831.051287
83074.081386	501386.051292	83145.081456	501585.051237
82962.081383	201087.051244	83113.081561	501639.051216
83175.081552	501520.051281	83138.081368	501797.051251
83121.081394	501420.020501	83072.081566	455306.051291
83079.081518	200627.051234	83073.081616	150506.051279
83090.081634	405668.051272	82968.081522	501819.051248
83127.081543	501648.046101	83096.081611	501648.051179
83003.0817	501179.05117	54438.083154	24.081638
501257.051273	83117.083108	81665.501601	51257.083046
81661.50083	83150.073562	501288.020486	24945.083133
81892.501751	51188.083137	81802.501345	49825.081812
501433.051307	83121.081714	501293.051211	83206.081762
124799.051194	83305.083126	81788.501167	51267.083155
81580.500885	83242.081925	501566.051289	83127.008154
501075.051268	83172.081876	501254.05126	83324.081839
500996.051176	83236.082019	500889.051228	83219.081971
501181.051186	83240.083164	81867.500741	83166.082109
500749.05113	71222.081995	300777.051336	83240.082113
354888.051155	83322.082204	500549.051199	83109.082045
501106.051089	83149.082026	500141.051234	83171.082003
500849.051257	83194.082001	400291.051181	83157.082224
499836.05126	83230.081948	500472.051285	83064.082141
500583.051218	83022.082108	500139.051338	83286.082064
499730.051228	83297.082299	499345.020484	83338.082383
498706.051216	83238.082223	499190.051174	83062.082288
498030.051187	58206.08405	82194.497707	51340.00001
82317.082343	497000.051279	83219.08253	496958.051219
83231.082397	496531.051191	83281.082407	497322.051236
83355.041642	82288.082335	495874.051217	83323.082403
496014.051266	83354.082341	495289.051221	83368.083329
82406.494847	51253.083188	82179.495078	51269.083207
82421.082502	494665.051269	83279.082437	484360.051182
83288.082466	321480.05116	8318.08246	487166.051225

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 14 of 18)

83294.082551	493616.051147	83186.082507	493607.051245
83207.08247	493611.0512	83314.082542	295779.051135
83338.082485	435883.051257	83090.083363	82615.492323
83201.078216	492143.051234	83287.082693	491926.051241
83379.082567	490747.051231	83344.082762	491130.051201
83417.08254	490288.051239	83298.082796	490269.051194
83175.083443	82505.400107	83198.082781	490422.051335
83310.082726	489673.051233	83305.082724	489896.051212
83340.082796	489053.051254	83407.082888	488450.051105
83231.082777	489427.051216	83283.082862	488659.051226
68052.083305	82946.244709	51108.083557	83032.4897
83501.082968	490014.051212	83445.083093	490292.051269
83486.083877	491138.051173	83510.082949	495302.051327
83580.083022	270316.051245	83509.083001	490753.051125
83506.083111	491109.051209	83469.083544	82966.490561
51258.083448	83096.083087	438002.051295	83412.083487
83133.49069	51265.083373	83004.48947	51251.083587
83221.489381	51240.083502	83219.439872	51187.083458
83245.48869	51238.083472	24988.083314	488266.051246
83503.083149	433516.0511	83557.083276	487926.051268
83255.083338	488218.043786	83601.083408	487955.051194
83487.083353	488005.051201	83508.083271	486895.051311
83656.083393	486409.051219	83554.083366	473433.051281
83483.083455	485942.051272	83531.058404	486073.05123
83377.083457	485773.051331	83507.083424	485055.051177
83678.083497	483986.025632	83639.08358	483655.051186
83596.083544	483825.051268	83687.083606	483043.051285
83543.083506	241584.051191	83422.083545	482921.051173
83692.083614	482364.051239	83386.08368	482594.051226
83677.083674	482333.051166	83695.083696	482651.02283
83683.083564	169160.051218	83618.083573	481358.051267
83729.083672	481201.051289	83790.083808	480560.051206
83606.083675	480640.051288	83622.083762	481444.051263
83585.083635	480561.051253	83809.083793	479892.051246
83879.083904	479858.051236	83891.08377	83874.479377
83765.083928	480027.05123	83742.083868	479904.051268
83756.083849	472874.051127	83952.083771	383373.051213
83776.084014	469080.051232	83911.083958	479368.051256
83836.075518	480071.051176	83963.083991	479008.051213
84010.084049	479233.051296	83989.084104	478747.051165
83877.084113	479305.051291	83816.083945	479467.05129
83904.084001	479413.051262	83954.00001	479088.051227
84102.084116	454435.05119	83989.084238	478845.051276
83931.084195	479067.051177	83976.003833	479197.051296
84115.08414	479046.051275	83965.084096	479318.05107
84172.084268	479380.051228	83916.084284	479865.051146
83996.084179	480127.051214	84211.084359	480017.051242
84190.084258	335811.051247	84131.084401	429886.051212
84258.084264	480587.051223	84135.084361	480693.020519
84248.08406	481314.05115	75756.084161	84282.481394
55146.084436	421453.051176	84176.084373	420533.05127
84375.084506	481194.051269	84339.084516	481012.051225

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 15 of 18)

84129.084588	367707.051216	84323.084572	467802.051239
84399.071447	481706.051137	84389.084618	481985.051198
84409.084553	481754.032998	84399.084657	481993.051188
84418.08462	482926.051242	84505.08462	482541.051226
84611.084812	482930.051237	84492.084726	483539.051266
84489.084781	344803.051235	75938.084775	339642.051201
84400.084757	380515.05123	84419.084701	383092.038761
84541.084694	484321.051215	84600.084776	484691.051233
84513.054787	484505.05126	84508.084841	485534.051159
84484.084839	461123.051188	84533.084945	485970.0512
84533.084857	485691.051122	84357.084922	486034.051199
84680.084954	15.051221	84528.084969	487419.051233
84591.050948	487337.051227	84749.084924	488094.051207
84687.085046	488248.051192	84636.050971	488561.051161
84711.085078	489098.051202	84758.085107	489884.051201
84793.085138	489910.051216	84941.085036	489513.051179
84921.08512	489523.051249	84839.08522	293834.051216
85001.085271	490432.051142	84832.080538	490595.051291
84672.085294	491412.012528	68065.084987	85222.490508
84983.085318	491441.043802	84899.085231	491511.051099
84880.085282	491789.051245	84954.085245	491646.05127
84818.085346	408613.051212	85006.085417	491949.051255
85005.085462	444674.051236	84876.085118	493065.051173
84959.085321	485506.051199	84911.08536	492576.051245
84962.085464	492198.05123	85059.085367	492377.051188
85122.085653	492335.051205	85052.085614	492833.051201
85099.085352	492878.051315	84974.085407	492933.051103
85221.0854	492552.051197	85066.004685	491166.051191
85017.085618	492644.051236	84985.085476	493081.051196
85042.085638	493123.051243	85089.08548	492920.051322
85220.085564	492871.05115	85037.085754	493269.051177
85120.085563	493318.051227	85040.085658	246677.05117
85139.08575	492586.051171	85266.085708	492535.051269
85215.085796	492268.051177	85213.085984	492421.051112
85097.085945	445302.051205	85172.085816	492634.051223
85153.085841	492838.051114	85245.085793	492206.051203
85300.085843	491746.051173	51146.085944	320785.051228
85109.086025	492844.051211	85155.085938	491900.051296
85160.085197	86037.443171	85210.085945	492474.051214
85154.085995	492641.051211	85137.086151	443622.05106
85117.086061	492857.051231	85821.085914	491786.051508
85270.086088	491963.051208	85309.086047	385648.051239
85290.085195	86143.492144	85119.086149	493008.051101
85271.086173	375791.051233	85323.086168	492364.051066
85267.086122	492539.051263	85431.086223	491927.051154
85300.086267	492253.051145	85223.086222	492924.051184
85306.086224	418932.051238	85265.086257	492382.050923
85384.086381	492626.051157	85169.08637	492850.051134
85307.086079	402990.040947	85336.086337	493455.051185
85371.086253	491935.051194	85498.086445	393672.051203
59830.086468	492557.051175	85442.086598	350276.051212

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 16 of 18)

85436.086461	492718.051131	85489.086594	391971.051242
85486.08647	350870.051194	85437.086452	491803.051251
85504.086589	492098.051198	85543.086755	433042.0512
85383.086655	492565.051183	85419.086627	342005.051173
85388.086663	393851.051219	85586.086728	492331.051225
85471.085467	52051.487357	85620.086523	492083.051173
85546.086862	492657.051198	85469.086717	492175.051272
85511.086768	492197.051178	85651.086893	491951.05119
85687.086962	492188.051215	85632.00468	492133.051166
85710.086967	492066.051242	85595.086782	492612.05108
85752.086906	492003.051204	85761.087018	492045.051208
85733.087011	492099.05122	85573.086976	270268.051151
85694.087084	491992.051181	85535.087007	493082.051242
51457.060906	492507.051207	85595.087117	492419.051155
85681.086995	367532.051165	85686.08713	374646.051245
85736.087172	492587.051239	85723.08708	492597.051207
85889.087061	492757.051184	85839.087255	492481.051131
85847.087296	492851.051159	85874.087246	493288.051255
85849.087209	492540.051239	86045.087152	492435.051286
86017.087354	492583.051173	85867.087322	492433.051238
85972.087339	493306.051156	85838.087256	443697.051227
85957.087353	493065.051188	86035.087296	492897.05113
85734.087424	493028.051159	86050.087378	492736.051199
85973.087494	345265.051167	85973.087589	492397.051231
86035.08737	122585.043267	86021.08738	492693.046032
85933.087616	467281.051071	51690.086008	87201.493599
51241.085899	87576.493327	51200.08598	87561.493357
51286.086039	87488.493256	51245.086002	87490.492978
86167.087725	493407.051209	85951.087558	493944.051171
86075.087495	452821.051269	86574.087564	493525.051075
86164.052609	493620.051154	86068.087895	493445.051183
86112.05575	87826.37461	86184.070298	440997.051202
86121.087758	321760.051194	86146.087764	493290.051112
86247.087847	493450.051107	86235.087956	494043.051151
86175.087764	493852.051197	81425.086268	87841.493387
51457.086391	87929.493989	51323.086421	87943.44765
86452.0879	493180.051248	86369.086423	88139.493869
51139.086297	88070.043791	248592.051351	86429.088088
493674.051243	86374.087996	493689.05111	86524.086408
87992.391621	86579.088119	478555.051136	86505.088185
493395.051198	86409.088183	493903.05127	86477.077755
88138.394463	51159.086525	88356.086196	493872.025612
86623.088114	493190.051153	86582.088278	374647.051172
86732.08829	492941.051125	86544.088237	493698.051252
86620.088356	492733.051186	86638.088299	493062.051178
86716.088342	493140.051213	86591.088422	492523.051192
86425.086594	88396.493703	51208.086587	88359.088476
493247.051136	86537.088462	492974.051179	86538.088437
10.051204	86568.088515	492223.051166	86562.088622
492220.051159	86458.088543	394305.051149	86547.088441
491731.051252	86610.088511	492895.051065	86585.088617

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 17 of 18)

492009.051126	86793.088706	491883.051301	86594.088625
491899.051127	86520.079804	440324.051234	86628.088623
491693.051197	86589.088646	436010.051221	86660.088762
491183.051205	86553.088691	491495.05119	86338.088758
491057.051125	86614.088813	491118.051273	86511.088687
491175.051146	86630.088819	491114.051177	86871.088803
122151.051142	86690.088919	294054.051187	86655.088951
490531.051186	86719.088844	490416.051253	86670.088937
490499.010198	86772.089013	489772.051234	86643.089031
489892.051192	86708.088979	489800.0512	86753.089044
490467.051195	86731.088982	489993.05123	86544.086733
89001.490048	86748.089039	490254.051173	86703.035665
489491.051159	86753.088913	489821.051126	52045.089089
490396.051221	86661.089217	489303.051205	86861.089243
488860.051235	86867.089286	341103.051154	86841.089375
488237.051186	86802.089333	488713.05117	86744.089241
487460.051115	86967.089361	487483.051037	87020.089104
487036.05123	86926.089381	485963.018141	86973.089389
437605.051182	86897.089443	486554.051223	87138.086859
89458.485694	51274.086964	89364.486857	51100.087046
89344.486407	51157.087142	89450.48666	51261.087003
89267.487426	51174.087018	89543.089578	487192.051196
87175.089488	486997.051113	87195.089663	486820.051161
87201.089717	486431.051116	87285.087172	89649.486748
51152.087126	89693.487305	51112.087183	89568.48742
51264.087303	89584.08953	487353.051024	87207.087364
89752.486284	51208.087334	89688.486877	51169.087214
89773.487359	5124.087202	89798.48731	51237.082632
89693.31653	51265.069774	89781.486249	51151.087384
89819.485355	51198.087105	89748.080952	484903.051148
87209.08966	484050.051129	87276.089947	483984.051182
87290.08982	483454.051201	87269.089965	428878.05123
87303.080873	482562.051166	87401.090132	482108.051098
87365.090029	481945.043196	87424.08999	481957.051214
87525.090037	10.051196	87544.090007	431523.051293
87574.090157	479612.018148	87447.087462	90281.047905
51233.087386	90234.479986	51233.078664	90080.072273

Figure J-1. Wallops No. 3 Data Acquired in First Run in Conditioner-Decommutator (Page 18 of 18)

```
100 REM:PACK ALL SAMPS FOR 3M MINUTES -- 771214MCW
110 LIST 100
120 INIT
130 M=10.9
140 PRINT 'SET HP AS ADDR 3 FOR INPUT OF 3M=';3*M;' MINUTES OF DATA'
150 Y=0
160 DELETE T
170 M=320*M+160
180 DIM Z$(1),T(M),U$(17),T$(14)
190 PRINT 'SELECT 1(MARK FILES) OR 2(BYPASS FILE MARKING)  --  ';
200 INPUT F
210 GO TO F OF 260,230
220 STOP
230 PRI 'CONFIRM UNSAFE CASS IN 4051,FILES 3-8 MARKED. PRESS CR TO GO -'
240 INPUT Z$
250 GO TO 300
260 FOR F=3 TO 8
270 FIND F
280 MARK 1,10*(M+1)
290 NEXT F
300 F=3
310 PRINT @3,32:'PF7G1S17';R'
320 ON SRQ THEN 340
330 WAIT
340 FOR N=1 TO M
350 INPUT @3:U$
360 T$=SEG(U$,7,6)
370 INPUT @3:U$
380 U$=SEG(U$,6,7)
400 T$=T$&U$
420 T(N)=VAL(T$)
440 NEXT N
450 OFF SRQ
460 PRINT @41:T
470 FIND F
480 WRITE M
490 FOR N=1 TO M
500 WRITE T(N)
510 NEXT N
520 PRINT 'FILE WRITTEN'
530 F=F+1
540 CLOSE
550 GO TO 310
560 END
```

Figure J-2. Listing of Data Acquisition Program

APPENDIX K

SECOND DATA RUN FOR CONDITIONER-DECOMMUTATOR

APPENDIX K. SECOND DATA RUN FOR CONDITIONER-DECOMMUTATOR

The tests on the conditioner-decommutator are described in section 6.2. Figure K-1 presents the listing of data acquired in the second run and Figure K-2 presents the listing of the program used to acquire that data.

```
100 REM:PACK ALL SAMPS FOR 3M MINUTES -- 771214MCW
110 LIST 100
120 INIT
130 M=10,9
140 PRINT 'SET HP AS ADDR 3 FOR INPUT OF 3m=';3*m;' MINUTES OF DATA'
150 Y=0
160 DELETE T
170 M=320*M+160
180 DIM Z$(1),T(M),U$(17),T$(14)
190 PRINT 'SELECT 1(MARK FILES) OR 2(BYPASS FILE MARKING)  --  ';
200 INPUT F
210 GO TO F OF 260,230
220 STOP
230 PRI 'CONFIRM UNSAFE CASS IN 4051,FILES 3-8 MARKED. PRESS CR TO GO -'
240 INPUT Z$
250 GO TO 300
260 FOR F=3 TO 8
270 FIND F
280 MARK 1,10*(M+1)
290 NEXT F
300 F=3
310 PRINT @3,32:'FF731817)R'
320 ON SRQ THEN 340
330 WAIT
340 FOR N=1 TO M
350 INPUT @3:U$
360 T$=SEG(U$,7,6)
370 INPUT @3:U$
380 U$=SEG(U$,6,7)
400 T$=T$&U$
420 T(N)=VAL(T$)
440 NEXT N
450 OFF SRQ
460 PRINT @41:T
470 FIND F
480 WRITE M
490 FOR N=1 TO M
500 WRITE T(N)
510 NEXT N
520 PRINT 'FILE WRITTEN'
530 F=F+1
540 CLOSE
550 GO TO 310
560 END
```

Figure K-1. Listing of Data Acquisition Program

514070.051503	51349.051381	51481.051455	51408.078923
61768.327797	51446.078841	61753.265701	51420.070912
61634.055491	310343.05151	79106.061692	353386.051517
79053.061809	220776.046692	71303.061858	406466.051504
79206.07941	61604.309537	79372.055607	420136.051462
79527.061653	354276.051399	79463.06173	398586.051427
79585.061808	309489.051492	79593.061799	310610.051429
79512.061857	311075.051459	79551.061868	355269.046349
79670.061921	399731.051521	79781.061904	321019.051301
79749.062011	379517.051461	63708.061884	337314.051399
71869.055666	356391.051483	79901.061941	219598.051495
80046.061974	401607.051158	79976.059764	401631.051403
80083.042356	357995.051444	79954.062071	448723.051382
79996.056078	314326.051507	80151.062004	314682.051498
80095.062005	308135.051394	80184.062118	406382.05145
80005.061904	385862.046456	72096.061901	433261.051422
80138.062128	317855.051543	80168.062024	409944.051391
79933.06215	410322.051447	80188.061992	411250.051502
80065.062106	321364.05146	80067.062085	390790.05153
80139.062009	413294.051459	80166.062152	414098.051342
80115.062195	322098.051239	80014.062097	366284.051478
79992.06208	322730.051388	80174.06222	431965.05141
80195.062232	334472.051456	79962.080068	62189.38186
79369.062038	336241.051376	80003.06222	463268.051443
79912.062215	415960.051456	80020.062256	389568.046358
79886.062215	324263.051452	79902.062325	370303.051488
79858.062263	463723.051444	71804.062296	249182.046318
79752.062325	288273.051607	79801.061196	417483.051366
79638.062364	324906.051337	79642.0622	360295.051427
79553.062348	325018.051458	79512.062473	324569.051173
79548.079634	62439.31236	51455.079494	62442.324395
79529.062499	338876.051411	71644.06249	278684.051541
79462.062544	324945.051469	79443.062446	277953.051438
79612.062423	425245.051483	79190.062482	405155.05135
79252.079396	62334.463915	46218.079409	62477.325009
51527.079383	62557.347981	79250.062449	324783.051501
79335.056317	254102.051263	79274.062565	346060.05147
79246.062508	309229.046343	71414.0626	393790.051442
79230.062641	417552.05152	79454.062553	324957.051406
79422.079277	62647.371211	51335.07907	62672.349712
51476.079247	62496.37133	46427.071344	62662.062637
347223.051309	79191.056299	198198.051468	79163.062696
371717.051442	79330.079706	62707.350665	51405.079378
62729.371839	47700.079297	62676.062649	371197.051477
79376.062758	324171.051406	63491.06273	374374.051484
79310.056473	463567.051361	79178.062748	243054.051442
79199.057869	362028.051502	71303.062759	374069.05158
79285.062703	266322.05147	79196.06278	371742.05147
79200.062756	324725.051334	79292.06282	464858.051471
79177.06277	464693.051542	78735.062867	433333.051491
79167.06287	417767.05144	79108.063004	370917.051395

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 1 of 18)

79210.062932	371743.051502	71207.071153	62750.410294
79241.062994	417763.051408	79205.062858	284500.051425
79094.062899	464246.051419	79156.063041	417596.051362
71140.056634	371792.051495	79061.063042	371479.051417
79186.062986	286089.05142	79103.062956	353419.045864
78974.07891	63044.312571	46301.078947	63081.391967
79041.062984	371577.051464	78970.063106	418039.051415
79039.056741	325159.05139	78890.063157	436777.051412
79093.063142	417761.051442	79008.06308	325185.046334
78981.058412	417852.051465	79067.063221	324410.051482
79008.063135	325162.051364	78941.063282	260505.051427
71127.0632	371797.051441	71144.063047	371633.051525
78962.063214	330543.046223	79099.063136	325061.051469
78974.063296	371900.051414	78945.063206	325535.051374
71041.063123	279352.051444	78830.062276	464903.051443
78952.063235	418166.051454	78991.056902	418570.051422
78923.063374	335826.051399	78942.063309	460342.051424
78960.078974	63262.418097	51182.078874	63398.324924
51280.079115	63379.371622	70955.063371	417970.051386
78879.057969	418005.051358	79006.063428	295091.051488
79001.063412	255288.051393	79166.063405	413029.051397
79047.06342	371870.051437	79107.063438	232770.051444
79057.063533	377209.051502	71158.063361	372482.051463
78983.063418	389011.046324	79219.063521	317839.051493
79133.063505	394187.051529	78847.063554	392519.051436
79136.063501	415962.0514	78977.063496	372609.051355
79073.063463	418876.051374	79253.063518	418642.051393
79008.063687	418536.046242	79065.063615	372055.051391
79073.063581	334603.051453	71091.063606	418555.051458
79072.057281	418922.051337	79092.0636	372130.051363
71205.063778	418859.051415	79231.063576	310485.051474
79135.063594	325730.051335	79168.063639	372100.051349
79029.057291	418707.051444	79120.079092	63617.404707
51467.079016	63687.063773	360797.051463	79054.057297
314842.051458	79039.063734	325667.051498	79162.079292
63744.34951	51328.079164	57432.385388	78963.05735
326308.042128	79163.063303	372530.051469	79056.063762
374370.051383	79217.06376	216437.051441	79084.063852
465532.051463	79271.063769	419375.051317	78332.063936
466393.051422	79133.06381	419560.05143	79196.063876
409201.05142	79250.063966	419520.051434	79317.063873
311599.046247	79185.063924	419131.051381	79156.063144
326113.051506	79071.063903	260138.051449	79201.063903
297221.051455	71245.063975	357210.051448	63694.079222
63840.372962	51486.079166	63937.419733	51467.079134
63903.466643	51464.079141	63974.406585	79323.063978
465805.051356	79148.064129	301416.051377	79113.064085
372541.051358	56541.064044	279424.051471	79072.064119
372751.051397	79240.064093	325970.04218	79081.063251
326238.051405	78849.064129	372730.051346	79189.064162
454180.051494	79160.064061	419538.051491	71362.064132
384466.051462	79163.064144	418804.051403	79145.064143

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 2 of 18)

430121.051503	79135.064253	299195.051488	79216.064124
372768.051493	79077.064128	375869.05143	71415.064219
358545.051439	79275.064296	372788.05136	79063.064272
382466.051358	79242.064219	373202.051417	71261.064067
419851.051414	79074.064276	325649.051398	79208.064347
280021.051432	79238.064331	312046.05138	79109.064366
383645.051395	63295.064106	372993.051359	79156.064337
372719.051405	71270.064391	392658.046267	78964.062127
279660.051408	79064.06435	336454.051223	79338.057876
419580.051465	64362.06432	326359.051495	79166.064341
361190.051413	79239.064411	416258.051447	71225.064421
419354.051431	79110.064422	373689.051412	71202.064407
466161.051416	79108.064532	419498.051453	78447.064508
466074.051428	79215.064484	372904.051368	79000.064501
442851.051342	79159.064464	419725.051486	79297.064532
372982.051303	79129.064618	445935.051399	79183.064586
405791.051478	79288.05806	405512.051666	79175.064624
419758.051428	55540.064565	399709.051487	79219.064542
405809.051407	79227.064579	331660.051441	79051.064667
372935.051424	79119.064589	466209.051385	79046.064632
373176.051766	79038.064722	326911.051286	79150.064599
466170.051397	78902.064832	326500.051337	78956.064685
419526.051413	78959.064674	407037.046209	71047.064647
461953.051375	78970.064832	395123.051418	78978.064749
391188.051306	78929.064847	372138.051404	78872.064722
419275.051376	78809.062904	374355.051432	78791.064706
432049.047191	78825.064841	418831.051358	78844.064669
307178.051415	78867.064877	325646.05138	78781.064928
465513.051326	64012.064825	331310.051485	78483.064804
338305.051481	78863.06488	325362.051383	78717.064971
406920.051438	70690.064887	405330.05145	78719.064921
325601.051511	78600.064925	369660.051423	78676.064952
385687.051417	78497.063004	418339.051393	78581.065086
279185.046162	78675.03901	303540.051461	78680.078657
64795.326067	47207.078559	65009.398509	51411.078711
58595.349672	51318.078706	64643.065388	156709.051288
78615.06503	248630.051287	70803.064939	232900.051486
78651.05858	334496.041133	78720.065076	464875.046504
78638.065136	325769.041995	78610.065186	333700.051353
70760.065184	438246.051424	78684.06164	372580.051498
78732.065149	418797.051374	78824.058627	273913.051352
78759.065207	325997.051358	78560.065101	372745.051347
78704.065144	353413.051459	78566.05873	337822.046234
78703.065258	345832.051355	62922.065226	418912.051369
78592.06517	342304.051322	78682.065318	372799.051373
78786.065185	365968.05148	78760.065151	382643.051389
78817.065316	372487.051374	70809.065287	293468.051482
83528.078552	65346.312866	51380.078682	65296.415656
51480.078738	65308.419373	51389.078743	65335.06524
279317.051414	70789.065394	279684.051421	78664.058864
237939.051348	78666.065423	326349.051411	78707.065395

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 3 of 18)

303711.051458	78685.065485	285965.051401	78792.058898
279474.051423	78775.065449	465519.051382	78536.058992
326707.051387	78607.065373	279722.051474	78813.0635
337214.051362	78760.065448	372643.051337	78671.065532
373601.05144	70966.058908	246167.051302	78483.065476
326547.051393	78707.065513	326510.051465	78675.065533
419302.051399	78839.065601	380846.051317	78725.065639
257345.051419	78571.06553	279721.051468	78755.065458
279952.051406	78566.065521	315972.051383	77882.065584
326413.051323	78762.065741	358942.046199	62945.062894
58145.287135	51360.051339	78622.05908	373042.051431
78559.06573	373557.051305	78712.065763	351824.051331
78780.065667	332156.051412	78700.065803	246467.051379
78783.065854	155444.051397	70887.06554	295042.051426
70827.065662	191441.051365	78851.065833	325516.051285
78768.065733	372901.051502	70839.065798	346970.051259
78662.065883	248871.051483	78765.065747	327169.051366
78728.065844	419443.051366	63094.065849	211222.051374
78719.065869	241937.051356	78671.065849	420422.051299
78806.06573	280064.051375	78617.065937	280261.051417
78695.065885	156698.051389	78793.065863	372843.051397
78781.065983	280143.046261	78796.065926	420275.051446
78819.065878	350139.051446	78776.059412	466506.046233
77564.066003	405527.051384	78815.066026	359138.051366
70810.066103	374152.051267	78641.065914	280530.051454
78697.078679	65999.354628	51422.078734	65968.197384
51409.078705	66149.280367	51460.078695	65945.368652
46132.07083	66119.066221	244505.051349	78640.066013
229762.05144	70759.066067	306852.051365	51423.078661
66191.284952	51251.078706	66234.326792	51361.070782
66193.066138	350837.0514	78683.066085	326357.051424
78632.066175	272815.051405	78756.066187	314152.051303
78741.070762	66275.279907	51356.051307	78190.065808
258365.051294	70771.059646	326703.051471	78708.066153
279814.051408	78691.066268	314224.046273	78648.066238
292496.05134	70749.066204	291251.051441	62885.066328
233326.051376	78633.066302	222922.051502	78493.066228
256859.051372	78643.046501	302018.051253	70671.078728
66373.245784	46201.078512	66290.373754	51354.078566
66413.326645	25695.078438	66428.363751	51368.078569
66509.321592	51345.070913	66514.26044	51319.070653
66521.258316	51295.078587	66471.288501	51361.070757
39730.264552	51351.078644	53141.326769	46113.070774
66476.279974	51408.070757	59799.066387	219702.051428
72409.066538	206842.051331	70813.053297	316043.051505
78576.066503	349337.05144	78606.046624	251022.051399
70787.065827	233041.051402	70724.066546	326856.051353
78487.078473	66541.37376	51352.070822	66537.316641
51380.078509	61003.154628	46233.078692	66602.233207
51405.066177	66647.233036	51402.078506	66563.202721
51307.078551	66708.060046	233472.051412	70576.060024

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 4 of 18)

252440.05137	70720.066654	186672.051296	62873.060005
252038.051383	78583.060054	373215.051262	78581.066704
285553.046214	78649.066444	233384.051415	62869.066755
230755.051402	78557.066809	209489.042001	78386.066796
327050.040347	62862.078578	66703.280374	51360.051371
70733.060185	416106.046231	78421.060088	301722.051387
70722.066828	206204.051419	76443.06022	319695.051333
70688.067056	284408.046187	70518.066941	219201.051365
78574.066772	178629.051449	78423.067012	186933.051367
78161.06686	256097.051324	78612.066977	214510.051316
76475.066844	280450.051334	70647.066949	230956.051384
70776.059086	271077.051379	70622.066912	245140.051347
78645.066909	336990.051374	78652.066989	466588.051387
78566.067089	420527.051355	78436.066941	280053.051371
78464.066987	275507.051279	78642.066969	317215.051324
78389.06712	421002.051325	78607.066915	430035.05135
78591.067136	320418.05129	78436.067115	373825.051383
70720.067093	279817.05142	78659.060488	264193.051313
78520.053873	309644.051312	70629.067164	301514.051416
78588.067059	373639.051369	78585.067258	410492.051364
78708.067126	327034.051288	78586.067237	298265.051263
78666.067162	373745.051372	70668.067238	305472.05147
78511.067172	374063.051348	70709.067325	420052.051439
78482.070763	67277.354155	51215.078554	67399.374337
78581.067349	261783.051342	78540.060429	280300.051426
78403.06733	234019.051331	78603.067454	233758.051293
78333.0674	384318.046709	70615.067459	282977.051382
78559.06746	467519.051412	78599.067433	327621.051419
78699.067494	327048.0513	78713.067455	280399.051224
70648.067575	406608.051347	78446.060679	156486.051306
78527.067257	296961.041111	78586.067424	327532.051379
78665.067429	233877.05142	70687.067497	374256.051413
78601.0676	374218.051374	62905.078535	67527.375038
46221.070658	67523.281282	51365.078584	67608.374158
51369.078671	67552.21186	41113.075107	67534.421413
51358.078422	67557.060907	307799.051345	78569.067537
411025.05138	78507.067633	421362.046189	78598.06082
286005.051442	78502.067657	374836.035942	78520.06781
281421.051429	73179.067635	285253.051289	78658.054128
325926.051359	78757.062938	67610.374364	51409.070787
60854.281354	41023.078572	67827.382281	51280.065415
67765.241621	51338.078507	60871.287459	51406.07083
67794.234571	51368.078632	67774.40377	51372.078447
67840.3322	51295.078676	67855.392618	78710.067799
375413.051307	78717.078771	67889.406308	51338.078763
67903.28067	51449.078856	67974.212959	51333.070866
68053.234608	46591.051301	78708.061063	281368.051421
78733.067831	327992.051346	78748.067994	461345.051288
78850.070937	67878.375381	51404.070745	67986.328284
51416.078823	68039.247111	51377.063074	68012.36437
51448.062912	68031.281499	78730.067991	328149.051404
78880.068031	314582.051179	78710.068021	292940.051309

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 5 of 18)

78759.061214	285961.051251	78702.054418	320161.051305
70765.068187	422694.051125	71042.068008	328725.051332
70796.06819	328999.051371	78812.068225	314118.051339
71011.068177	295052.051334	78805.076406	68177.340107
51401.070885	68114.281949	47741.070982	68182.328129
70950.061382	401945.051336	78766.068208	328727.051346
78945.068151	322660.05135	78852.068309	299911.051363
78924.068088	328641.051402	78948.061528	262481.051325
75672.068397	281671.051393	78744.061501	251082.051455
78911.068299	375600.051408	63126.068319	328169.051381
79067.068321	223775.051298	71078.063105	68505.231946
51330.078904	68268.327937	51318.071036	68507.281531
78994.068379	303048.051245	71056.068418	374737.05138
71182.068493	374966.04624	79000.068434	421951.051411
79145.068451	422183.051337	79064.068407	158858.051379
71100.079116	68458.269173	51343.07122	68456.068462
316413.051289	79236.068571	374302.051363	78928.068563
234678.051369	78988.068561	260988.051405	79075.068571
361782.051253	79209.071254	68495.328707	51231.079147
68564.327673	51285.079245	68691.218943	51220.030729
79135.060518	187672.051324	79028.068688	391338.051394
71327.068659	376464.051394	71371.068614	233617.051382
79228.068754	204472.051345	63442.07924	68709.373668
51364.079255	68697.311704	51356.079229	68690.068647
386225.051312	79416.068706	154356.051434	71528.06878
148006.051142	79457.062	384478.051355	77570.068841
247157.046246	79371.061305	234612.051299	79385.068862
279563.051363	79387.068738	186501.051242	71377.063942
232923.051306	79346.061944	343938.051372	79281.068823
176409.051351	79316.068885	279390.051296	79463.068823
232926.051353	79423.068907	212441.047385	79351.06203
185943.046929	79443.068944	222060.051509	79264.055567
68907.464953	51366.079464	64208.291281	51353.051296
79514.06208	280484.0512	76141.07954	69054.279121
46290.079508	68864.372813	51371.071432	62145.311759
51391.079388	69081.325727	51377.079508	62226.32533
51359.071555	69060.386882	51287.079522	69181.219942
51398.046232	79385.069137	160214.051319	79516.068972
398423.051408	79523.055272	438920.051174	79617.069218
418956.051342	76325.069293	179545.051359	79558.069127
325479.051393	79473.069328	418767.051409	79629.069359
325550.051392	79647.069337	232278.051318	79653.069352
278905.051348	79710.069292	372112.046197	79590.069279
326058.051272	79752.069402	418146.051404	71767.069222
236336.051373	79795.055445	292360.051347	79637.069358
328714.051452	79616.069197	372481.051443	79610.069381
439166.05136	79710.069399	372344.051442	79640.069403
419233.051345	79714.069486	325933.05131	79852.069424
418947.051381	79746.069398	325613.051327	79795.055656
417899.05143	71834.062463	393144.05126	78842.069596
370933.051376	79928.069599	349554.051333	72024.079952

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 6 of 18)

62586.417633	51321.07994	69620.457798	80001.062631
311972.051391	80083.06957	344046.051346	80017.069503
324424.051317	79908.062528	284206.051362	71812.069656
404960.051282	79920.069652	417091.051388	79801.069591
260296.05136	80006.069632	299550.051337	80004.069712
324016.051298	79995.069717	172559.051334	79935.069725
299341.051347	79983.069654	412201.051384	80001.069817
415852.051281	80024.069867	323494.051304	80112.069873
353517.051396	79936.069811	295375.051186	74365.069752
323322.051332	80107.069791	323703.051133	80093.069871
369600.035948	80153.069918	322621.051332	80162.069889
322579.051245	69885.062818	276858.051219	72033.069725
311805.051393	79939.069845	414622.051386	80231.069895
321903.051393	80085.069904	414025.051254	80081.069898
153343.051271	80185.062946	413674.051329	72140.069892
367874.051404	72193.069838	321588.051266	72171.069981
367483.05135	80028.070147	367326.051337	71944.070175
282464.05129	72075.069968	367176.04626	80104.080149
70102.29743	51288.08012	70125.333821	51190.05141
72249.070159	206141.051339	80076.069947	216479.051334
80214.070125	368072.051394	64108.070054	184927.051362
80214.070171	366839.051403	80287.070179	232238.051355
80299.07221	63233.293164	51285.080115	70320.173547
51322.037013	80186.056121	238523.051398	70805.072187
70194.063049	218873.051338	80426.070191	336861.051207
80319.063229	271262.051334	80286.056152	270617.046198
72318.069603	70279.229529	47618.051378	80284.056252
321161.035907	80310.07036	247725.046073	80392.070431
302787.047739	64338.070438	302038.051284	80392.070415
275846.051309	64316.070247	320027.051391	80260.049257
411444.051325	80469.070279	288187.051417	80166.070294
365806.051361	72329.063206	365275.051255	80392.070434
173573.051353	80399.070357	320184.051285	80404.063329
319105.051288	80409.070428	373149.051329	80397.063493
410760.051372	80315.070433	319546.051317	80461.070538
319409.046238	80322.070577	298764.051354	80440.070557
319460.051352	80472.070558	312923.051263	80429.080605
70636.228262	46101.07242	70514.182864	51338.045021
80530.070577	410909.051306	80581.070716	236243.046244
72553.070533	305931.051243	80548.070681	297906.051271
80484.070419	319305.051322	80603.070661	282642.051425
80546.070769	364829.051256	72602.070674	364712.051334
80587.06366	364785.051339	80652.070748	409797.051347
72591.070765	409860.051353	80688.070806	409080.051324
80708.070764	349590.051374	80841.070801	362601.051308
80545.070948	361269.051284	76896.070646	279252.051418
72667.056686	390982.046184	80700.070851	402094.051334
80866.07081	360686.051377	80851.070898	410781.051095
80948.070974	324882.051291	80825.070916	274137.051362
80744.070883	394735.051349	80896.071002	385683.05125
80858.070827	303785.051271	64610.071025	299838.051327

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 7 of 18)

80885.070758	219960.051329	72700.070967	172857.046166
80831.06391	211022.051403	80984.080854	70970.376899
51381.080927	71074.418432	80920.071103	334251.051365
80661.071083	416000.051266	80849.071148	420523.05134
72606.07112	291776.051312	80936.071103	375149.051247
81011.071229	337100.051347	81053.071096	307037.051309
80913.064001	416672.051296	72897.080971	71213.271866
51376.072964	71198.30419	51351.081095	71226.261006
51267.081074	71323.071236	336367.051306	81018.071178
346157.051431	80884.071132	332950.051333	81053.071257
375274.051196	80990.071282	292154.051246	81017.071415
250274.051287	81084.071395	342462.051171	81052.071411
293125.051352	81082.071459	209832.05146	81236.071436
353827.046215	81166.071457	285008.051141	80995.07139
421397.051364	72934.071381	337597.051269	81133.071414
379214.051369	81178.071305	379795.051379	81270.07157
389957.051338	81232.071434	365527.051404	81189.071589
391298.051314	81095.064527	422946.051317	81226.071329
338092.051387	81208.07151	338696.051352	81229.071565
422451.051318	81388.07165	288578.051345	73097.0716
368102.051223	81272.058309	307402.051333	81300.056282
339515.051404	81289.071612	381723.050316	68070.071698
340581.051297	81328.071643	383795.051261	81267.071735
341949.051132	81432.071594	427367.051348	73149.064392
360775.051306	81382.071646	413045.051351	81394.071775
228335.051295	81254.071689	300980.051398	81320.071802
311900.051378	73190.071732	345332.051314	81241.071843
215116.025682	81543.07177	258900.051175	81393.071825
215956.051315	81248.071884	302095.051313	81285.07181
302409.051338	81331.06467	346288.051328	81430.07191
389406.051286	81589.058481	372870.051326	65186.071996
337884.051273	81634.072037	301749.051393	73422.081489
64724.364666	81499.071923	390136.05126	81637.071915
260438.05135	81537.072101	340839.041006	81370.071785
378610.051314	81577.071998	391530.051342	81569.072052
391990.051327	81561.072149	217533.051367	81660.057613
305507.051324	81594.072167	393040.051258	73472.072109
275407.051363	81654.081499	72004.393435	73443.072279
309999.051313	81741.064094	279692.051242	81694.072285
306113.046848	81661.072332	273970.051349	81711.07224
272608.051319	81697.065033	375716.051305	81762.072215
296534.051333	73663.072251	351513.051244	81791.072349
350804.051292	73717.072259	340777.051266	81793.065073
363845.051362	81850.072391	335396.051341	81995.072264
219951.051268	81750.07247	208379.051279	81942.057926
294876.051294	81897.072266	352484.051297	81834.081948
72427.351217	51356.082074	72406.214285	51388.081913
72374.307214	51218.081932	72634.312862	51315.073744
72405.351054	51315.081806	65317.36927	51173.081929
72599.306501	51198.082014	72427.229366	51297.051373
81985.058054	331569.051263	73961.072534	307001.051238

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 8 of 18)

81945.072544	351417.051274	73738.072616	255518.051304
81967.07252	346834.051322	82019.081992	72682.317109
51251.081952	72795.3509	51350.080391	65261.227654
51253.081838	72618.072761	264014.051364	57330.082026
72704.200412	51294.065647	72649.396387	51263.073636
72807.317021	47119.073864	65588.307074	51243.081958
72848.380167	51252.081915	58291.349856	51361.082022
58275.07276	218492.051402	73882.065529	393440.051273
82154.065637	393241.046133	82140.072761	274835.051309
82023.065597	211410.051349	82188.072821	349695.051233
82207.072856	284662.051281	82140.072988	343470.051299
82201.073001	393018.051344	73850.072923	325547.051275
82178.072985	348804.051361	82236.072892	261910.051203
73969.072995	305201.051154	82316.082295	73086.217761
51295.051254	82239.073008	304927.051296	82175.07318
313456.051255	74077.073053	208727.051297	82280.066734
269816.046123	65920.073175	304148.051238	82381.060257
174286.047944	82253.07318	275277.051266	82231.065669
298378.05123	82257.073087	247156.051313	82303.073178
304286.051031	82229.073061	384919.047483	82281.072926
261387.051214	82279.073265	165933.051297	82347.063529
304941.051323	74157.082449	73185.357979	51289.074358
58577.348471	51313.082517	51817.246489	51194.051271
82198.073396	349345.051266	82688.058659	277706.051288
82368.065904	249671.04605	82470.058712	362217.051167
82603.073328	188576.051269	74228.066078	224659.051242
82538.082339	66098.230109	51297.074473	58656.193116
51352.082935	73365.174434	51247.051303	79299.057885
53257.073429	158862.046108	82763.058698	180354.051275
74349.0674	186517.051221	74327.082649	73467.21845e
51271.051396	82491.066165	262600.051321	74308.066103
180238.051291	82976.073449	204503.051358	82631.082652
73594.21882	51256.051267	74489.073545	175474.05127
82723.073571	145220.051268	82561.07356	175071.05153
82877.074609	73578.205242	51296.066297	53575.073718
204838.051336	74414.058784	216524.051316	82818.066221
263083.051316	82758.058912	158714.051292	82977.074683
73722.350699	82997.073636	307702.051297	82764.073518
292609.051234	82972.073731	182944.051368	66724.07831
72520.073704	310427.051334	74520.073868	136378.051301
58070.059001	264126.051361	82736.066467	262723.051278
74643.073801	173972.046146	66331.073772	295921.051324
75403.081259	73928.22037	51317.046213	77174.059066
219784.051317	66730.082936	73910.165228	51208.082923
74084.249817	51302.074707	74005.188012	51371.083112
73854.251115	51332.082965	74014.185241	46111.051336
49894.082981	73863.203428	51388.051377	66539.073369
60511.073904	249795.051236	79463.058798	310130.047228
74926.074063	297617.046214	66460.066463	73993.17653:
46846.051366	76447.074792	59213.228129	51355.083217
74004.264592	51240.083241	59334.161079	51252.051263

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 9 of 18)

58238.074079	220885.051343	83193.074111	194337.051309
83180.074161	135676.046077	78651.066644	160045.047042
83303.07419	149986.046118	75029.07429	226674.051223
74799.041532	74153.066769	206325.051298	74903.074109
269301.049332	75152.07509	74286.13644	48302.051317
66741.066748	315777.051076	83191.074292	221151.051309
83387.066697	66908.108896	51320.05836	74275.29645
45842.051315	66688.059516	74285.074274	172460.05135
75085.044576	137522.051314	74975.074318	182264.051178
69305.07441	191022.051275	83235.052109	197555.051241
83440.061073	308730.041924	83494.074307	148780.046057
83428.074333	160489.051178	75168.067115	251040.051251
83510.07444	159919.051372	83280.064051	67510.272518
36734.051323	83553.059607	182038.051444	83448.08155
74478.313269	51319.07521	74621.38989	51281.066929
74599.230583	51292.069424	76661.0597	275778.046368
83649.067064	294552.051369	83527.059615	195733.040951
83572.075059	74626.134346	51269.046186	75201.075295
57361.074713	161848.046156	41747.067207	237543.051418
75061.075064	74749.164159	51207.046126	75201.074693
226182.051512	83478.059755	147433.051253	75286.083758
74793.182226	51194.051335	78475.074706	176307.046183
66768.076198	61304.130126	51433.05128	63223.058501
67446.264186	51357.051312	55202.074744	160131.051374
66891.083551	74771.239821	51333.051303	75321.074875
185954.04103	83691.074899	198648.046145	75000.054131
198074.041072	75295.074811	182896.051407	75257.075182
74866.138711	51255.047151	67024.075003	237281.051267
66939.074958	139424.046773	66901.074997	155972.042169
75349.067559	161266.047961	66925.07487	115252.072408
66951.063799	75010.064609	137268.0513	75184.054693
115255.046032	67105.078067	60104.161442	51186.046542
83573.075012	103927.046096	67022.058599	44976.114646
42072.046211	66994.075189	203970.05116	67095.060074
135994.041193	68433.060095	188501.051304	58618.075433
60187.115448	41027.080711	60079.07191	151523.051277
83853.075147	149207.046104	67110.06769	146022.051358
80765.083867	52571.181299	45744.051263	83804.083713
67743.070538	51280.0755	75221.115847	51300.0839
75280.060137	160593.051393	83773.060225	101631.051331
83858.083848	75258.215531	45983.051288	83903.075273
138362.051259	83775.075402	185331.050727	83742.067831
159792.051317	67074.075285	67818.15203	51302.083673
75339.075448	133690.051295	74938.075497	75364.135594
41598.046178	66941.060839	176480.05133	88451.075506
140283.136966	46009.075599	75462.142244	51252.040995
83917.075495	101567.051275	73468.066986	53375.135456
46190.051312	67348.083977	75419.134582	51300.051283
75525.075649	127823.037457	75580.075313	130486.046258
67069.054772	136182.051307	67031.07277	60524.075474
147266.051213	83966.067941	105109.051301	75496.075682

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 10 of 18)

189011.051236	83783.083896	75682.149184	51331.083849
75592.167407	46246.051227	75407.062326	139095.051261
67161.067085	68015.16604	51289.04494	69231.083859
52908.075704	103616.051047	75699.07581	151649.051257
75535.068613	99012.051049	75473.075689	136579.051228
67142.075678	162909.051297	75686.075666	101037.051264
67269.068183	121222.051222	67139.068219	161289.051324
75452.068186	141332.051224	74492.075788	181334.051352
83868.075734	181594.051314	75691.075902	190141.051276
67158.053141	140081.05127	67173.060675	140897.051116
75725.068398	103662.041042	75796.084006	75936.143042
51319.075629	75809.128504	46091.051288	75765.076033
107785.051123	59009.060065	119382.046154	84050.076105
133371.051146	75884.068475	116624.051171	75829.084378
60710.14418	44112.04717	67412.076	126574.051236
68747.076069	139126.051234	59003.076084	139090.051157
75606.075639	60883.076142	159323.05127	75868.076049
158509.051353	84254.076199	196827.051286	84408.076034
194468.051279	84422.076199	173951.051273	84353.076019
187788.051134	84249.076137	183075.051376	75749.076216
181937.051242	84296.076349	160135.051266	84306.076229
173747.046116	84116.076409	151437.051254	84157.076291
98644.051239	84382.07576	76191.146513	51301.084231
76383.161597	51336.084237	76251.160756	51224.084034
76310.07637	126113.051308	84168.076429	126055.051229
84194.076389	144401.051306	83914.076215	160089.051317
75602.076496	143394.051347	84131.076364	159492.051193
84193.075571	76453.134541	51163.084057	76262.136842
51241.084139	76440.124741	51297.084168	76520.153938
51280.084026	76470.152567	51341.07563	76715.136648
51257.083954	76597.13461	51324.083734	76568.136435
51299.075633	61210.129886	51307.075646	76558.136147
51197.084079	68875.113067	51200.051205	83836.076836
112315.051273	83968.068832	140746.0359	75547.076742
120824.051324	83974.076697	135637.051305	84046.076807
76651.119784	51313.075578	69079.068972	105279.051186
84020.076852	114517.051283	84064.076489	121704.051212
83909.076813	106468.051215	83934.069093	114136.051203
83970.076802	116134.051307	75530.07692	117411.051231
83869.076841	113960.051225	83630.076963	109679.035881
75446.076857	106721.05129	83756.076912	104778.051166
83968.077008	103117.051294	83832.077079	102479.051239
83771.076976	102145.051271	83662.06936	101630.051262
83740.076977	100520.051356	83572.076955	100109.051293
75383.077187	100455.051201	66951.077087	89334.051288
83546.077139	97859.051253	83560.076941	97003.051392
83428.069342	86342.051334	83573.077131	85700.051069
66663.069477	95158.051232	83435.0695	95357.051183
75180.077338	94499.051273	83435.077226	93850.051322
83400.07725	93396.051262	75299.077299	93498.05128
66802.07728	93257.051225	83317.077191	93366.046031

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 11 of 18)

83311.077212	93184.051341	83225.077216	93636.051341
83335.077429	93716.051342	83285.077303	93535.051279
83186.07732	93007.051319	83034.077409	93127.05126
83302.077254	89877.051352	83178.069612	93179.051307
83193.077351	93297.051325	83211.077528	93293.05128
83168.077572	93704.051171	83140.069772	65557.051339
83070.077456	93440.051291	74887.077544	93060.051246
83200.077554	93128.051191	83108.077583	93283.051242
83148.077639	93324.05131	82935.07755	93062.051233
83041.077503	93082.05131	83181.069855	93080.051314
83001.077713	84715.05127	83092.077731	92770.051301
50922.06981	92896.051299	83063.077541	92915.051303
82968.077699	92872.051308	83082.077616	92961.083463
51210.083082	77889.09286	40968.083029	77764.092496
51255.051252	83027.062313	83299.051339	83092.077939
92527.046197	83113.07787	92384.051282	83067.083092
77875.074068	51251.074755	77936.093265	51270.074735
77901.093521	46155.083028	77693.083268	51351.05129
74726.077871	92377.051224	82987.077869	92466.051343
82918.078043	92312.0513	83016.077942	83075.051227
83015.077947	92346.051286	82978.077974	92230.051362
83175.062342	92055.05127	78038.078012	92060.051182
82929.07816	91616.05127	82960.07819	91357.051154
82998.078172	91274.051283	82958.07797	91340.051202
83029.078236	91976.051233	83101.075254	90753.051269
83125.078046	90097.051213	74459.078277	88712.051236
83017.062471	61751.079318	51314.082844	78200.08771
51271.051233	82955.0782	87644.025591	82944.078225
78637.051291	82757.078209	87389.051261	82813.078278
78630.051315	82778.078184	87676.051362	82747.07828
87533.051195	82834.078381	83829.051199	82819.077892
88134.051124	74366.080159	88114.07528	35889.051246
82539.0626	88062.051344	82616.070578	70519.051288
82759.078444	79338.051236	82649.078363	88322.051218
82752.078483	79565.051326	82808.070655	80028.051266
74366.078379	80665.051318	66039.078466	89335.051321
82739.062795	89536.051174	82637.078505	89337.051245
77359.078636	89499.05125	82520.07071	81460.090829
51357.07428	78505.090776	51314.082589	78475.078479
70772.051284	66127.0786	63754.081941	51240.074392
78594.07877	82357.046185	82422.078605	82787.062746
51178.082513	73647.091975	51314.082522	78750.078648
83030.051293	57926.082705	70745.093178	51277.082506
78745.094304	51164.051203	82577.078627	85486.051153
66101.078728	85926.09534	51261.082586	78745.062959
95652.051322	82705.070899	86274.051362	74652.07083
67341.051141	82550.078853	86732.046129	82500.057643
98265.051255	82490.078734	79305.051305	74302.078817
99301.051166	74319.078794	94280.0513	82602.079031
101059.051279	82666.078957	91392.051271	74296.055257
82418.051258	82731.078947	104020.051278	78297.073041
104164.051261	74355.063203	83893.051129	66193.082696

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 12 of 18)

79101.105464	51256.082715	79019.104078	51208.074441
79126.106689	51268.082685	79020.065411	51228.082759
79059.10889	51306.082746	79080.11001	51302.082718
79140.111098	51337.082633	79266.110012	51213.051226
82697.078792	113186.05127	82697.079085	93341.051256
74398.079098	114368.051177	82567.074492	55480.103455
51220.051209	82652.079323	115797.051224	82629.079328
92932.051266	82695.079102	116714.051321	82630.079294
105845.051229	82827.071301	118324.051155	82733.079306
99000.051195	82624.079305	107489.051081	82627.074334
71361.107548	46749.082812	71456.118225	51240.082679
79463.095713	51152.051297	74539.077733	103252.051314
82609.07146	121197.051262	82621.071572	111202.041007
82858.079318	125616.051331	82757.079399	127200.05124
73795.079417	103602.051279	82575.071582	117963.051233
82814.079756	132044.051194	66148.07164	133727.051345
71829.063675	120516.051315	82763.079629	112127.051243
82691.082733	71638.119796	51176.082555	71723.109162
51128.051277	74451.079642	110869.051284	82676.07954
107449.051314	74477.071563	81479.051077	74386.07162
105936.051205	82655.079637	122886.051216	74319.079781
124468.051251	82329.053693	100081.125158	51301.082429
79651.124293	46121.051197	82512.079792	99206.051262
82608.079702	112738.051296	74224.071584	113551.051234
82613.07977	88770.051238	82473.063867	116437.051269
82442.079819	103864.051246	82512.071952	130793.051253
74084.079918	132842.051152	74312.080004	96118.051233
65881.079887	117401.051008	74217.080012	129494.051241
82614.071906	132161.051326	82441.071813	151210.051268
82509.072705	174781.051194	82509.071943	128194.051329
82194.080016	179393.051135	82450.079966	175139.051318
82443.082495	80022.158587	51205.082403	80055.202829
51186.082589	73878.204431	51202.082463	80017.209108
51227.082461	80212.195243	51263.080334	79377.213935
51318.074207	80253.196362	51278.082568	80254.19893
51152.082597	80152.222357	51254.074032	72129.156634
51140.082516	80205.201048	51257.082546	80188.225047
51294.082473	80295.186481	51238.051311	82267.074187
80273.228807	51302.074022	72354.194146	51176.082346
80459.209482	51244.082393	80281.256603	51314.082234
80332.291743	51184.063998	72263.264198	51225.074046
80445.238308	51206.082381	80591.316385	51224.082388
80419.303473	51257.082411	80444.350054	51221.074303
80572.324593	51313.074408	80419.34742	51240.048748
80585.363859	74290.080478	431914.051206	74318.08028
406229.051307	74244.080477	418748.051235	82663.080571
396884.051288	82635.08056	218562.051269	82527.078508
339039.051215	82493.080728	389370.051248	82517.080559
437767.051296	82675.080859	488695.051211	82563.080727
460868.051183	82492.078734	330790.051226	74321.078613
492302.051182	82494.080725	390717.051279	66071.074333
79268.389104	51349.082675	80732.395274	51187.082758

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 13 of 18)

80773.402962	51063.082581	80947.423275	82678.080787
447545.051226	82657.080762	430258.051291	82848.082788
80828.398367	74400.08089	293776.051312	82617.072885
474706.051242	74413.080728	449694.051323	82655.080977
359473.051207	82803.080781	334816.051251	82914.080939
375253.033915	62107.074488	72847.200492	51186.081193
74647.072994	329696.051224	82841.071879	354631.051204
82822.07224	300414.051286	82934.081091	450893.048998
82811.081092	300289.051147	82954.081187	266577.051213
82931.081198	399354.051215	82959.081254	350904.051207
74574.081027	372148.051306	66253.081172	351939.051233
82943.073068	350835.051245	82937.079724	293376.051297
74585.064837	301013.051268	83038.073476	81292.269587
51205.066447	73189.401273	51285.083136	73196.081244
401020.05119	74760.066491	76273.300856	51262.051047
83067.08133	339661.051234	82879.080745	300956.051221
83118.06629	81334.200258	51237.074726	76304.288304
51181.08314	65132.246674	51246.074658	81499.081376
401366.051215	83105.081489	413389.051192	83131.081572
399359.051194	74703.08142	366362.051252	83031.081446
460638.051069	83106.081487	451422.051319	83082.081504
451166.05125	74694.081519	358215.051227	83092.081621
451687.051163	83032.081556	428295.051263	83110.081592
333366.051227	74826.08152	448059.051201	83068.081676
400614.051202	83012.081642	325437.051201	74769.073295
401402.051155	82947.081702	376231.051229	83173.081813
400792.05126	82989.081824	371485.051172	83211.074832
81814.350569	51144.083063	65482.081723	401151.051174
83120.081723	349348.051234	83147.081677	288214.051333
83368.081651	417263.05128	83179.08182	350427.05125
83162.083206	81910.2815	51191.08311	80819.287904
51247.074858	81838.2508	51274.083284	57230.400689
41933.083275	73710.350813	51142.083279	73802.400658
51220.083232	82009.0819	300471.051216	83161.08585
301155.051186	83091.083182	82071.451276	66588.08206
350160.05122	75000.073988	280634.051151	83204.05744
350577.051226	83119.08213	400922.046143	74902.081951
450367.051297	83103.082078	418654.05122	83294.082129
449768.051232	83230.082188	450396.051265	83008.08216
400258.051236	83275.074878	284796.05132	74866.082072
300075.051258	83173.082161	367778.051215	83357.082219
349044.051111	83249.082265	349066.051179	74796.082256
422696.051214	83155.082192	421922.051289	83163.082267
248592.051236	83327.082488	397560.051248	83095.082404
465815.051232	83220.082413	327468.051258	83212.082249
446843.05121	83316.082316	402791.051305	83179.082439
392922.051293	83291.05764	494854.051274	83454.082485
82437.339801	51235.07493	57734.074224	391880.051265
83268.082444	494819.051227	83213.074226	356210.05127
83277.082369	394883.051208	75098.074238	382440.051171
83258.082556	242565.051237	74861.06604	374981.051233

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 14 of 18)

83224.082463	341135.051258	83330.066078	295538.051247
83385.075376	443219.051213	83259.083342	82681.434276
83382.082685	318310.051255	83372.082608	344226.051201
75077.074468	392848.05132	83217.082673	367400.046113
75042.074415	415128.05118	83299.082753	343042.051215
74824.071327	368638.051223	74991.074465	300094.051224
74962.073962	324542.051246	83289.082682	391068.051222
83326.082876	341952.051223	75026.082935	357069.051246
83344.082973	391261.051254	83428.082972	390904.051205
83371.074696	441018.051188	83451.082882	349489.051232
83281.082989	334211.035842	83552.08307	326144.051076
83470.074796	261482.051319	75156.083029	294493.051314
75090.083045	392194.051246	83531.083019	423458.051243
75151.08302	343030.051194	83471.083021	343506.051246
83464.083104	294403.051279	83348.083008	440769.05122
83536.074752	342309.051227	75192.074872	342196.046074
83521.075002	402269.051172	66652.083313	83332.244481
51174.075099	83215.308785	51254.083498	83371.291693
51245.083484	83264.244068	51181.08347	83411.194935
51218.075142	74963.313413	51228.083545	58308.243864
41215.083693	83318.083187	338995.051272	79076.066697
388738.05125	83454.083223	258164.051154	75190.073381
203755.051207	78657.075123	83424.263588	51239.083461
83404.335477	51340.083594	83513.330344	51235.083641
75088.083452	242083.051256	75330.083407	313592.051185
83586.083603	218447.051218	83545.075245	290098.046026
75240.083367	373272.051322	83596.08359	337751.05131
83659.0835	224781.051112	83452.083748	265737.051191
83605.075145	261049.051353	83811.083604	83651.300931
51205.083574	83540.271584	51289.083696	75337.075249
248360.051303	75449.075313	58568.33731	51192.051211
83579.083692	351294.051273	83573.083584	385091.051281
83547.083646	336593.051272	83606.083728	288285.051278
83765.083696	336062.051251	75486.083768	83838.361408
51235.083843	83851.383936	51206.083681	75537.198647
51179.083821	83865.383602	51259.075547	58690.250065
51077.083934	75534.383746	51214.053838	83897.33546
51246.08392	83647.335908	51169.083892	83210.239655
48773.07557	75575.257972	51350.075423	83930.297066
47043.083944	83996.297621	83880.084124	393476.051129
83721.083984	335490.05114	75627.08401	191473.046109
81959.084114	184670.051041	84022.0588	201552.051229
84004.084141	262308.051167	83901.080627	335521.051167
75673.075812	379209.051224	67148.081765	335379.051237
84093.084246	335545.051231	84105.08427	394007.051186
84021.084262	269197.051225	84268.084238	67372.431996
51291.079322	84268.384492	51193.075676	84398.192241
51243.051287	84160.084371	240024.051273	67397.075943
394686.051183	75851.084324	391271.051213	84054.051232
433275.051198	75736.084317	289044.051188	84168.075929
298533.051099	75888.076054	336738.05122	84329.084474

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 15 of 18)

384994.051186	84421.084712	385464.051232	84304.084547
433667.051192	84346.084516	336888.051263	84340.076125
433990.051188	84383.084451	300707.051151	76029.076142
337571.051232	84416.067501	337960.051175	76021.084666
386666.051257	84476.076183	415321.051251	84307.081196
367739.051242	76012.076121	321386.051254	84427.084695
338409.051167	84241.084702	339231.051095	84475.084951
422519.051159	76007.084715	336003.051331	76002.076254
377473.0512	76053.084833	314757.051214	84576.08485
270603.051198	84521.08493	291358.046114	84590.084812
437169.051209	84509.076218	277162.051174	84602.067885
263133.051164	76035.084965	299258.046202	76084.07644
240861.051261	84661.084972	308740.051183	84651.08488
220946.051284	84602.084986	198393.051214	76261.068037
293101.046336	76357.076635	285956.051144	76230.06508
293997.051196	84744.067772	342856.051226	84834.076596
305114.045893	84898.076489	305604.051226	84923.076648
228725.051162	85069.076478	68213.254418	51142.051166
84840.076011	333251.051226	71186.068074	267477.051275
84976.085207	245486.051161	85018.085228	337523.051027
74803.085251	344074.051156	84961.076565	350128.05117
84870.084816	85249.076735	377854.051263	84887.065314
270267.051243	84929.085365	344405.051234	85087.08534
344920.051243	84939.085392	346443.051248	85009.085208
331569.05112	84964.085454	335653.051199	84991.085366
390825.051212	84971.085392	390554.051181	85041.08553
343354.051185	77543.0856	388124.051178	76375.085581
394815.051275	76632.085477	344759.051227	85057.085574
334826.051178	85167.068454	394742.051179	76442.085514
246390.051239	85102.076957	308362.051255	76569.07655
77063.345736	51273.076624	85635.352775	85137.085675
373339.051209	85123.077201	346517.051224	84996.077129
443929.051141	85063.077167	443679.051202	85141.085829
364399.051243	85271.085752	443596.051263	85243.085768
358439.051253	85324.08598	492502.051091	85253.085891
400607.021592	85029.085864	394392.051152	76623.085799
295395.051243	85223.085835	321900.051216	85319.085779
328532.051204	85121.085945	305829.051263	76694.077367
265404.051129	79110.077417	246424.05127	85096.085886
246464.051249	76613.086011	242250.051266	85175.085938
263267.051179	85140.086032	204668.046846	85109.068925
218487.051203	82407.077404	192507.051226	76587.0861
265640.051173	76811.086044	307309.051275	76795.085342
68912.262988	51178.076689	86207.336069	51225.085249
86224.24651	51191.085421	72661.196837	51264.085171
86234.244466	51221.051242	85477.086201	221285.05116
76616.077665	287981.051101	85289.086314	295665.046191
85345.086257	246710.051284	85255.077673	265643.051185
76739.085319	86330.164699	46073.085481	86304.162675
51153.08528	86387.276848	51192.08519	60530.086473
374107.04603	76908.085289	77824.201088	51271.085454

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 16 of 18)

86445.366666	51265.085373	77815.344398	76901.086519
393726.051118	85488.086555	344533.051158	76872.077871
197251.051114	88036.085494	86294.492635	51248.085347
86485.423825	51288.085498	86648.294136	51277.085537
86648.27563	51188.08544	86692.44299	85375.086711
459898.051216	85433.086704	443069.051353	76871.086708
393787.051167	68451.068392	86616.344326	51206.085642
78132.442584	51146.085533	86585.435708	85499.059764
86751.443355	51252.068427	86793.472273	51205.085553
86880.26026	51241.085663	86945.295338	51274.077108
87010.368422	85624.086976	421724.051201	85709.086756
443092.051242	85724.086918	394824.051149	85753.077139
78273.442516	85766.086988	491930.051116	85763.078298
393581.051194	85685.087126	443252.051145	85515.087021
394195.051241	85572.087031	344488.051261	85737.087011
393927.051119	85730.087096	295517.05116	77240.086912
344379.04611	85751.087197	394414.051158	85743.087178
443066.051209	85689.087199	443115.051179	85839.087118
407738.05109	85885.087324	399788.0511	85832.087016
461104.051203	85923.087346	443397.051247	68703.078394
379063.051301	85863.087321	492377.051217	85842.087249
393943.051247	85964.087322	390823.051164	85708.087316
488985.051167	85955.087294	384954.051288	86056.087405
492952.051056	85964.078663	344874.051235	86011.087489
443594.05113	86011.087557	443342.051119	86030.078831
443713.051193	77456.087411	394277.051307	77350.087401
368457.051211	86069.087541	443468.051176	86000.087463
405909.051244	77415.078725	394562.054086	86011.087506
493594.051279	68896.087571	325708.046108	85979.087629
343435.051178	86090.078828	443927.051265	77407.087659
383841.051146	77404.087672	444054.046071	86108.087547
360900.051214	86171.087641	493742.051055	86202.087659
309505.051158	86196.087798	404896.051255	86199.087903
297565.051133	86178.087868	444260.051207	86178.087835
389478.04616	86182.087882	434664.051124	77570.086245
87906.345659	86247.079061	405344.051178	86208.087669
428859.051079	86357.088015	450620.05127	86345.087912
394017.051154	86316.079165	265207.05121	86494.070444
451860.051199	86297.087849	296376.051188	86482.070423
296358.051169	86325.087961	444010.051132	86372.088025
246818.051218	86474.088062	390566.051167	77601.088189
365926.05127	77744.088136	297049.051186	86454.088207
438284.051148	77823.079489	227161.051245	77924.088184
159146.051224	86419.079405	246544.051152	77973.088362
275638.051172	86327.075659	79502.267511	46727.086578
70737.296034	51148.086588	88256.381545	86463.088406
492731.051192	78194.08833	443480.05102	86537.088267
430642.051248	86450.088418	404698.051106	86609.08826
345112.051144	69186.088461	249759.051076	86515.088462
344889.051175	86654.088435	393924.051217	86543.08856
443190.051147	86440.087641	357887.051131	77971.088387

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 17 of 18)



283758.051127	77887.079792	415609.051129	86666.087418
430791.051191	86352.088727	344246.051236	86558.088505
295272.051126	86561.088626	397254.051263	86646.086722
344332.051273	86606.08874	324290.051279	86712.088727
344054.05115	86592.088822	283222.051119	86482.08878
226295.051253	86593.088819	343815.051256	86650.088772
426393.051244	78220.080012	440893.051235	77949.088959
433209.051199	86669.088929	342966.051226	86741.088931
343954.051202	86733.088919	441124.051278	86860.088917
362121.051235	86941.088835	391997.051125	86797.089086
440818.051272	86761.089014	412326.051174	86551.089135
294418.047373	69333.089084	440711.051289	86735.089008
391859.051088	86852.089111	293705.051102	86805.089137
303943.051186	86586.089086	490364.051157	78049.080336
342463.05123	86798.072391	440172.051297	86841.089261
390463.051145	86892.088829	292877.051182	86849.08925
375372.051207	86792.080472	315458.051075	86861.071349
380976.051207	86912.089201	243665.051098	87049.06247
291568.051215	87010.080434	367802.051059	86971.08945
295493.051172	86888.089465	340216.051251	78294.089396
372492.051263	78275.08938	243378.051156	78465.089462
352782.051138	69707.089482	340782.051187	86892.089572
360620.051179	87025.089516	304032.051225	78383.080654
355412.05113	66039.080622	291305.051156	87253.089595
253674.051232	78519.080818	291738.051175	87212.089641
341392.051185	87182.080499	351280.051206	87194.087122
275200.051027	87338.089704	241074.051228	87231.089695
354440.051162	87292.089845	394526.051247	87177.080805
287457.051228	87217.081718	314161.051194	78654.089836
314492.051262	87346.080717	245738.051057	87186.089902
358004.051125	69915.089846	338293.051157	69882.081092
357967.051216	87497.09002	337919.05119	87358.089961
377461.051197	86418.081063	433705.051149	87439.090088
322479.051202	87250.089959	289234.051129	78717.090124
377292.051082	87560.089691	383810.051113	69983.090061
335728.051198	87553.090188	431224.051211	87558.090104
288068.051246	87309.072136	458270.05116	78733.090153
377160.051278	87377.090096	408636.051087	78811.081248
319306.051153	78803.08123	333353.051181	87514.08127
284259.051189	87478.081367	329294.051158	87548.072308
223871.051264	69911.090429	283115.046095	87661.090364

Figure K-2. Wallops No. 3 Data Acquired in Second Run of Conditioner-Decommutator (Page 18 of 18)

APPENDIX L

THIRD DATA RUN FOR CONDITIONER-DECOMMUTATOR

APPENDIX L. THIRD DATA RUN FOR CONDITIONER-DECOMMUTATOR

The tests on the conditioner-decommutator are described in section 6.2. Figure L-1 presents the listing of data acquired in the third run.

780280.077953	77833.07788	77897.077823	77701.077827
77635.077762	77840.077647	77641.077663	77826.077714
77714.077414	77699.077583	77726.077729	77664.077639
77631.077471	77552.077559	77159.077591	77472.077575
77297.077367	77506.07736	77247.077443	77431.077265
77383.077379	77640.077772	77870.061516	441504.051405
77989.061579	441922.051447	78084.061522	442412.051463
78220.061649	440826.051365	78516.078665	441676.05147
78569.061652	441756.051347	78662.06171	441542.051464
78853.061661	441760.05154	78805.061729	441568.051458
78937.061734	441199.051348	79102.061796	441951.051577
79064.061777	441674.051463	79226.061739	441883.051477
79318.061719	442264.051497	79361.061678	441374.051452
79461.061714	442136.051479	79439.061754	442922.051419
79393.061781	443067.051488	79584.061733	443210.051561
79456.061839	443253.051447	79599.061865	444003.051287
79678.061888	444359.051512	79365.061925	444620.051345
79828.061817	445053.051513	79894.061842	445614.051366
79927.061921	445032.051421	80002.061918	445958.051529
79922.061957	446456.051416	79926.061958	446202.051514
80096.061946	447549.051464	79981.06201	447362.051432
79990.061925	448456.051454	80137.062035	449665.051447
79726.062031	451251.05136	80094.061756	451389.051477
80124.061993	452524.051369	80057.06206	453107.051384
79974.06207	454167.0515	80127.061892	455505.051396
80065.062127	455955.051438	80181.062125	457072.051554
80159.062076	457751.051436	80090.062135	457021.051462
80143.0621	459627.051431	80060.062085	460371.051473
80107.062051	459699.051544	80072.062102	461004.051501
80085.062188	460720.051414	80150.062292	460522.051471
80022.080127	461543.051333	79904.062224	462072.051436
80018.062183	462403.051444	79954.062133	461965.051426
80043.062269	462091.051412	80051.062314	462742.051464
79852.06227	463495.051461	79879.062249	462761.051525
79909.062241	463248.051535	79737.062332	463639.051349
79733.062411	463459.051541	79701.062258	463924.051463
79726.062399	463883.05142	79638.062401	463879.051476
79659.06229	463012.051439	79574.062377	463360.051411
79561.062422	463550.051427	79421.06242	463826.051413
79462.062396	416536.051448	79487.062447	463080.051466
79474.062479	463778.051139	79478.062528	463362.051389
79204.062426	464377.051485	79369.06244	463824.051426
79396.062485	463548.051298	79491.062512	464055.051533
79324.062554	463872.051485	79342.06256	463778.051498
79307.062565	464199.051479	79301.079377	464071.05151
79396.062537	463281.051465	79398.062571	463748.051317
79324.062753	463684.051448	79104.06259	463935.051396
79310.079347	463259.051388	79024.062565	463851.05141
79341.06261	463875.051401	79074.06269	463857.051372
79213.062586	464017.051407	79266.062668	464282.0514
79312.062658	463979.051433	79245.06269	463234.05145

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 1 of 18)

79317.062705	464219.051442	79328.062719	463154.051441
79332.062752	464082.051496	79271.062569	463480.051502
79271.062708	463959.05145	79313.062765	463726.051408
79265.062894	463847.051485	79265.062638	366940.051433
79218.062768	464762.051405	79083.062871	464325.051439
79237.062804	463576.051436	79199.062832	464407.051303
79113.062881	463983.051452	79044.062823	464358.051408
79127.062721	463495.051461	79238.062855	464189.051511
79090.062825	464252.051313	79145.06298	464149.051414
79181.062753	464136.051505	79124.062931	464386.051453
79015.063029	463888.051415	79049.062951	463504.051515
79130.063019	463932.051398	79101.063065	463615.051514
79064.063043	464875.051397	78899.063065	464066.051545
78991.063008	463548.051494	79093.062975	464559.051192
78940.063144	464245.051427	78785.063058	464223.051399
79023.063052	464369.051363	79018.063147	464175.05142
79030.062946	463710.051431	79025.063151	464043.051374
79025.063223	464006.051499	79034.063122	464853.051471
78969.063192	463734.051407	79025.063176	463336.051496
79098.063219	464497.051277	79013.063243	463645.051397
78744.063214	464526.051449	78909.063156	464887.051472
78914.063194	464396.051389	79048.063223	464354.051458
78792.063236	464612.051431	78883.063273	464503.051454
78936.063209	465174.051413	78839.063277	464813.051379
78975.063181	463966.051417	79009.063242	464571.051356
78956.46406	78735.063339	51406.078986	63220.464395
78873.464304	79077.063399	51451.078878	464566.051407
79169.464136	79141.465133	79024.464879	79092.079082
463740.051462	79075.465144	79020.464797	79091.464985
79056.063499	464672.051548	79000.465007	79110.464894
78883.464915	78983.465154	79154.465231	78836.465484
79041.463918	79118.464987	79055.063656	465056.051454
79052.46571	79041.464892	79159.063672	464869.05143
79275.465312	79139.464971	51412.079153	63682.109887
51449.079171	465159.051366	78984.465388	79145.536804
51453.079161	63720.465738	79058.079065	494862.051356
79123.06373	466249.051366	79072.063716	63856.05106
79051.063714	463578.051416	79177.063799	463860.051443
79141.063839	465530.0514	78972.063786	465753.051447
79183.063769	375164.051404	79085.063839	465798.051431
79206.079163	463350.051515	79225.063809	465943.051366
79126.063914	465423.051448	79227.063941	466311.051478
79206.079087	63846.051476	79135.063869	464510.051438
79253.063964	466118.051251	79175.063973	466185.051531
78902.063865	465513.051426	79183.063874	466100.051484
79161.063965	466104.051455	79234.063947	465737.051416
79086.063927	466411.051351	79142.063968	466164.051396
79134.063789	466166.051415	79150.064039	465743.051331
79101.064124	464422.051419	79301.063971	465387.051231
79183.064233	465586.051391	78865.064167	465772.051425
79247.063953	465786.0514	79169.064087	465710.0512
79276.064158	466250.051486	79134.064108	465806.051434

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 2 of 18)

79245.064128	465602.051418	79157.064106	466205.051438
79116.064133	466549.051462	79196.064148	465091.051487
79219.06416	466176.0514	79168.064185	465983.051425
78923.064213	465894.051386	79196.063923	465992.051392
79070.064165	466044.051284	79222.064195	465884.051402
79010.064289	466129.051362	79032.064249	465648.051379
79191.064264	466105.051463	79222.064258	466000.051437
79137.064303	465044.0514	79161.064339	466182.051429
79168.064378	465814.051399	79097.064351	466468.051435
79119.064052	466032.051479	79126.064367	465628.051419
79277.064417	465830.051447	79081.064418	465970.051467
79156.064303	466176.051365	79171.064363	466467.051511
79193.064402	466360.051491	79141.064371	465567.051429
79157.064369	466333.051341	79055.064424	466119.051337
79143.06449	466287.051362	79209.064285	465961.051393
79001.064481	465369.051357	79174.064526	465936.0514
79229.064633	465997.051421	79023.064397	466267.051307
79059.064527	466485.05141	79184.064508	466472.051489
79250.064614	465035.051434	79322.064513	466114.0514
79228.06444	466166.05141	79165.064629	4[illegible]76.051382
79070.064531	465873.051546	79219.064676	466436.051413
79195.064648	466344.051364	79044.064708	466480.051468
79053.064663	465806.051386	79070.064703	466426.051331
78830.064601	466476.051404	78968.064623	464784.051419
78991.06465	465974.051329	78844.064751	465710.051429
78858.06475	466062.051377	78887.064709	465185.05142
78878.064655	465086.051427	78940.064757	465503.051308
78857.064777	465445.051419	78771.064816	465576.051411
78845.064774	465465.051466	78735.064835	465193.051455
78794.064818	464365.051412	78752.064878	465645.051399
78613.064868	465492.051446	78719.064906	465265.051401
78709.064911	465458.051478	78604.064841	464893.051457
78835.064915	465078.051289	78735.064964	465546.05132
78479.064846	465396.051439	78685.064931	465247.051421
78528.064961	464729.05136	78662.06488	464729.051417
78674.064927	465017.051328	78494.065031	465104.051303
78614.065019	465434.051403	78707.064921	230962.051445
78629.065015	464379.051369	78674.0786	465203.051262
78733.065079	465093.0514	78453.065149	464893.051337
78695.065006	465506.05148	78599.065107	465563.051433
78686.065102	464816.051443	78728.065075	465470.051507
78731.065132	465725.051417	78686.065162	465332.051391
78806.065138	465283.051457	78598.065126	464595.051415
78761.065164	465180.051233	78696.078695	465146.051408
78429.065215	465106.051424	78728.065063	465551.051419
78600.065226	465507.051278	78684.065293	465400.051382
78737.06521	465352.051372	78729.06531	465077.051381
78753.065252	465970.051414	78698.0786	465567.051471
78683.065345	464551.051422	78750.06525	465533.051253
78759.065385	465756.051492	78383.065412	465796.051385
78628.065112	466022.051446	78557.065392	465949.051285

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 3 of 13)

78751.06544	465835.051417	78698.06544	465874.051447
78561.065457	465562.051343	78643.065479	465862.051436
78732.065406	465818.051428	78664.078748	465007.051426
78737.065437	465907.051334	78764.065469	465668.051384
78349.065549	466012.051358	78657.065201	465946.051411
78727.065445	465790.051235	78752.06546	465767.051393
78524.065547	466051.051386	78652.078571	466008.051395
78737.065598	466443.051326	78623.065541	466439.051401
78734.065596	465051.051399	78873.078887	466450.051325
78620.065596	466480.051314	78424.065644	466060.051338
78791.065475	466089.051401	78650.065625	466384.051281
78670.065668	465553.051379	78562.0658	465967.051401
78660.065719	466314.051437	78733.078323	466466.051395
78739.065695	466251.051429	78827.078713	465090.051421
78830.065713	466450.051416	78728.065768	466154.051325
78476.065754	466027.051397	78691.065328	466191.05148
78640.065794	466008.051299	78699.078659	465911.051379
78511.065775	466841.051421	78612.078776	466452.051297
78694.065748	466921.05136	78680.06577	467184.051432
78675.065893	465823.051354	78716.065885	466411.051376
78681.065967	466616.051395	78528.065934	466762.051362
78724.065625	465888.051435	78667.066027	466503.051375
78843.065932	466476.051388	78592.07886	466182.051379
78754.065903	466631.05135	78800.065956	466634.051402
78749.065916	466174.051416	78732.078679	465815.051426
78722.066026	466944.051404	78719.078492	466081.051399
78543.066069	466582.051411	78652.06576	466769.051454
78540.065957	466447.051361	78751.066063	466769.051318
78486.066097	466765.051383	78610.065898	466629.051306
78624.0661	466453.051312	78660.066163	466467.051436
78651.066106	465517.051374	78659.066119	466114.051372
78693.066262	466391.051361	78689.066232	466339.051431
78738.066046	466093.051395	78646.078948	466253.051341
78655.066157	466252.051405	78667.078622	466244.051376
78607.066187	466041.051317	78617.066312	466952.05144
78563.066269	466742.051461	78611.066396	465467.051391
78605.066295	467050.051463	78529.078399	466381.051403
78571.066383	466659.0514	78531.066098	466493.051408
78495.066336	466150.051397	78626.066306	465816.051314
78396.066444	466334.051378	78520.066306	465760.051311
78606.066435	466299.051285	78407.078434	466656.051372
78554.066387	465647.051384	78674.066392	466308.05134
78611.066457	466312.051338	78585.066489	466959.051404
78591.066274	466345.05143	78473.06647	466370.051369
78695.066515	466504.051403	78545.078559	466961.051408
78453.066408	466403.051314	78547.066615	466533.051436
78564.066522	467178.05142	78545.066512	465649.051355
78676.066593	466441.051326	78532.066669	466676.051366
78620.066689	466254.05136	78624.066546	465999.051435
78526.066681	466535.051356	78544.066569	466378.051424
78630.066755	466691.051338	78471.066529	466938.051259

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 4 of 18)

78508.066549	467301.051437	78519.066632	466443.051338
78544.066692	465843.051382	78609.066634	466704.051345
78589.066751	466187.051383	78526.066866	467045.051376
78499.066583	466683.051479	78516.06678	466405.05134
78647.066829	466927.051315	78442.066782	467033.051332
78528.066709	466616.051326	78610.06687	467256.051297
78421.066866	467024.051376	78476.066927	465333.051379
78662.066936	466628.051349	78498.066948	466868.051396
78500.066928	466951.051409	78569.06687	466768.051422
78495.066991	466557.051408	78651.066937	466667.051361
78610.066983	466751.051338	78489.066785	466580.051342
78531.066944	467262.051438	78574.066994	466747.051421
78577.06697	466159.051409	78492.066987	467174.051377
78494.067027	466942.051349	78476.066983	467110.051353
78465.066918	467224.051375	78535.067015	466705.051262
78520.067001	467129.051274	78366.06716	467046.051347
78500.067004	466815.051321	78527.067111	466927.051324
78450.067229	467539.051349	78520.067184	466279.05144
78659.067205	467218.051287	78534.06724	467055.051353
78613.067206	467284.051441	78594.066986	466636.051399
78545.067336	466802.051332	78559.067165	467082.051412
78517.067294	467068.051385	78522.067164	467160.051377
78530.067324	467866.051374	78521.067396	467422.051294
78622.067289	466364.051401	78633.067262	467816.051359
78539.067404	467189.051301	78589.067341	467368.051432
78489.067185	466832.051361	78487.067445	467261.051345
78549.067231	467085.051379	78400.067478	467280.051303
78497.067308	467550.051246	78560.067381	467457.051312
78509.067514	467454.051367	78520.067503	466923.051332
78562.067416	467843.051377	78541.067421	467510.051333
78567.067539	468164.051417	78523.067251	467593.051457
78486.067575	467838.051422	78682.067562	468135.051299
78411.067469	468486.051373	78506.067464	467884.051337
78602.067547	468678.05138	78391.067641	468710.05137
78503.067622	467155.051412	78571.067633	468420.051336
78512.067675	467907.05139	78659.067727	468779.051453
78554.067361	468344.051353	78496.067715	468115.051379
78637.0676	468504.05136	78529.067702	468357.051302
78615.067492	468270.051362	78561.067645	468184.05134
78457.067717	468562.051336	78569.067671	467746.051384
78530.067768	469631.051359	78529.067733	468625.051289
78439.067763	468983.051276	78466.067491	469102.051315
78523.067813	468701.051362	78760.067755	468781.051284
78455.067892	469326.051281	78716.0678	468244.051399
78845.0679	469281.05134	78646.067965	469121.051353
78703.067924	467990.051414	78832.067973	468605.051323
78793.068015	468729.051314	78593.067913	469579.051398
78520.067869	468862.051382	78768.068023	469012.051337
78757.067923	469220.051435	78573.068115	468947.051392
78746.067967	469080.051374	78679.067929	469[illegible].051337
78717.068069	469335.051352	78758.068096	468442.051309
78748.068008	469406.051385	78964.06823	469187.051361

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 5 of 18)

78587.068071	469454.051306	78e30.0e78	4e9100.051376
78734.068122	468952.051336	78932.06812	468958.051329
78501.068158	469347.051332	78693.06805	469756.051394
78824.0e8129	4e9424.05128	78831.0e816	4e718e.051339
78697.068221	4e6271.051362	78934.057158	469083.051263
78742.0e822	4e900e.051319	78477.068187	4e7732.05142
78719.0e8078	4e8653.051375	78985.0e8308	4e9209.051233
78783.068285	469303.051306	78769.068333	4e9170.05136e
79007.0e8379	469127.051311	78903.068358	4694e2.05134
78955.0e841	469007.051389	79070.068425	4e8102.051334
78756.068387	468875.051185	78948.0e8479	4e8e80.051447
78734.0e8541	4e9087.051303	78944.068145	4e8850.051373
79109.068411	468941.051294	79175.068507	468e10.051291
789e9.068541	468342.051318	79108.068402	468353.051447
79057.06852	468731.05134	79095.068486	468224.051354
79067.06853	467657.05145	79100.068529	468548.051133
79177.068569	467725.051345	78792.068506	468003.051308
79059.0e8494	467624.051363	79226.068646	467681.051171
79085.0e8514	4e7620.051356	79051.068649	467782.05133
79252.0e8723	466674.051349	79152.068668	467080.051377
79217.0e8721	466223.051371	79248.068764	465747.051347
79115.0e864	466687.051124	79327.068734	466043.051319
79121.068707	465878.051431	79391.068709	465721.051354
79408.068802	465852.051255	79375.068797	465581.051431
79384.068903	465904.051365	79276.068865	465820.051425
79246.068836	466120.051355	79415.068865	465680.051381
79287.068846	465366.051354	79363.068858	465526.051166
79463.06895	465160.051371	79272.068887	465403.051321
79351.068943	465284.051402	79493.068935	465210.051429
79552.068851	464897.05143	79338.068928	465065.05134
79420.068935	465032.051391	79528.069006	465268.051241
79382.068918	464751.051443	79493.068944	464504.051338
79451.069058	464750.051172	79422.069063	465080.05132
79375.069079	465016.05133	79445.069103	465258.051327
79306.069123	465249.051356	79498.069044	464985.051272
79504.069069	465191.051363	79564.069126	465188.051279
79438.069232	465742.051345	79606.069209	464897.051364
79603.069152	464759.051342	79506.069254	464922.051271
79586.069322	464772.051386	79560.069294	465443.051297
79519.069252	465011.051346	79643.069245	465410.051409
79707.069323	464621.051332	79777.069319	465233.051289
79747.069361	465290.051367	79622.069401	465762.051339
79681.069366	465321.051447	79624.069316	465509.051382
79690.069356	465304.051329	79785.06946	465709.051359
79606.069259	465930.051277	79720.069409	465665.051324
79732.069341	465536.051427	79726.069404	464235.051346
79801.069448	464011.051377	79927.069448	464192.05131
79684.069492	463973.051336	79894.069452	463779.051406
79856.069527	463893.051294	79922.069523	463366.051212
79870.069552	463614.051289	79910.069373	463379.05119
79879.069589	463556.051324	79773.069496	464045.051387

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 6 of 18)

79812.069653	462548.051377	79969.069673	463097.051309
79852.069662	463191.051389	79881.069714	464065.051318
79959.069309	462582.051357	79855.069705	462744.051288
80066.069754	462453.051294	79842.069737	462271.051331
79983.069711	462122.051261	80054.069776	461921.051399
80104.069771	462186.051455	80065.06983	461041.051299
80046.069878	462010.051327	80176.069878	461815.051344
79786.069896	461382.051235	80095.069592	460853.051349
80086.069854	460724.051292	80205.069972	460538.051345
79879.069856	460863.051373	80007.069876	460775.051408
80171.069956	459995.051425	80155.069914	459713.051342
80142.069838	458910.051359	80278.069915	459153.051161
80202.070012	459318.051297	79697.069934	459447.051348
80104.069798	458787.051392	80002.070061	459207.051143
80010.070095	459171.05136	80007.069968	459252.051311
80024.070088	458940.051267	79994.070351	459274.051356
80135.06996	459163.051335	80109.070073	458249.051315
80109.070092	459221.051105	80139.070052	458902.051333
79897.07006	459042.051347	80170.070126	459261.051405
80167.070132	459463.051254	80324.070116	458330.051358
80217.070156	459109.051316	80223.070269	458714.051288
80246.070227	458908.051317	80276.070199	458738.05133
112427.070331	457519.051359	80413.070321	458067.051175
80373.070332	458250.051311	80235.070408	457944.051356
80356.0703	458240.051364	80335.070375	458156.051319
80402.070297	457020.051315	80483.070302	457383.051309
80334.070349	456871.051334	80371.070409	457404.051398
80414.070377	457052.051443	80379.070433	456046.051382
80515.070446	456371.051383	80395.070592	456875.051307
80348.070376	456188.051302	80440.070361	457181.051375
80311.070483	456649.051367	80487.070416	455105.051387
80485.070416	456190.05134	80387.07058	455856.051292
80409.07051	456569.051414	80375.070446	456097.051297
80394.070587	456283.051318	80583.070444	456795.051361
80435.070606	455778.051244	80515.070509	456062.05126
80578.070587	456385.051362	80517.070679	455559.051311
80547.070569	455110.051391	80552.070646	456040.051378
80605.070797	455602.051332	80561.0707	456171.051265
80508.070431	455622.051356	80546.070739	455190.051331
80721.070772	455169.051263	80473.070849	454629.051312
80778.070704	453997.051396	80711.070785	453584.051277
80706.070951	451711.051329	80793.07083	449270.051382
80689.070846	448187.051259	80799.07099	446376.051335
80444.07083	444670.051319	80731.070589	439755.051329
80896.070963	436293.051222	80820.070801	434097.051372
80598.070983	430912.051365	80866.071088	428635.051361
80816.07097	427757.051325	80777.071056	425363.051337
80952.070934	422790.05137	80880.070963	421805.051125
80892.071069	420235.051341	80611.07093	420217.051321
80809.071042	418773.051298	80876.071028	417877.051328
80802.071007	417646.051331	80770.071225	416945.051283

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 7 of 18)

80901.071138	416724.051333	80826.071103	417075.051295
80905.071081	416449.051372	80913.071047	415649.051368
80865.071127	416112.051072	80904.071183	416003.051354
80880.071164	416583.051341	80890.071173	416133.051314
80942.071236	416271.051328	80911.071122	416284.051295
80959.071289	416047.051271	81008.071298	416714.051305
80947.071356	417372.05125	80984.071333	416730.051347
81111.071376	417642.051272	81023.071351	418491.051268
81089.071447	419433.051351	81012.071373	420526.051285
81125.071449	420666.051276	81085.071422	421692.051425
81154.071394	420890.051268	81245.071478	421175.051301
81238.071475	421682.051374	81095.07148	422103.051332
81249.071406	421548.051403	81115.071479	422615.051362
81177.071552	422463.051298	81223.071593	422507.051389
81147.071381	423587.051219	81185.071638	422926.051372
81368.071589	423736.051366	81215.071647	423073.051295
81227.071682	423674.051352	81271.071642	424077.051383
81044.071654	424966.05126	81323.071393	425341.051383
81299.071597	426738.051207	81318.071687	426730.051297
81287.071688	427586.051308	81303.071562	428387.05132
81355.071684	428817.051334	81370.071667	429844.051398
81326.071693	429314.051372	81339.071692	430615.051199
81305.071747	431069.051323	80963.071857	431104.051237
81302.071609	431430.05138	81353.071751	431953.051186
81392.071865	431390.051259	81346.071814	432099.051336
81290.071819	432506.051283	81345.071896	432822.051315
81358.071801	433152.051367	81340.071924	432312.051245
81438.071958	433117.051154	81514.072007	433916.051238
81390.071939	433742.051228	81518.07186	434018.051369
81469.071975	434529.051271	81542.071946	434080.051352
81605.071948	435105.051333	81567.072131	435337.05132
81562.072126	435652.051325	81580.071974	436279.051324
81523.072093	436428.051287	81727.072108	436883.05131
81680.072698	437082.051152	81526.072174	437399.051212
81627.072183	437322.051265	81548.072241	437527.051336
81795.07226	436858.051301	81808.072225	438214.051299
81709.072343	438322.051298	81777.072229	438881.051377
81779.072028	438580.051324	81680.072258	438442.051349
81914.072268	438431.051335	81718.072435	438637.051277
81819.07231	438658.051335	81881.072303	439783.051348
81855.072453	439500.051314	81973.072399	439059.051374
81864.072343	439902.051276	81958.0726	438500.051245
81601.072455	438899.051341	81828.072116	438086.051272
81911.072507	437729.051206	82039.072483	438337.051377
81836.07263	437899.051313	82067.072577	437590.051329
81979.072481	438516.051339	82018.072591	437993.051341
82011.072507	437440.051327	81966.072487	438491.051101
81937.072609	438177.051326	81788.072555	439140.051319
81833.072599	438946.051334	81924.072614	438672.051349
82005.072475	439391.051327	81908.072687	439785.051229
81943.072712	439657.051341	81909.072618	440192.051271

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 8 of 18)

81854.072801	439216.051298	81966.072672	438208.051244
81818.072731	437881.051142	81951.072924	436968.051328
81982.07278	437710.051298	81995.072798	437206.051218
81964.072808	437220.051372	82125.072724	437346.051294
82069.072839	437266.05122	82102.07283	436863.051315
82057.072886	437168.051337	82106.072818	436188.051358
82130.072894	436636.05125	82103.07288	436606.051261
82111.072963	435995.051363	82174.072852	436261.051252
82104.073007	436187.051228	82322.072974	435534.051361
82218.073023	434683.051297	82255.073161	434947.051278
82296.073084	435253.051307	81851.073187	435026.051193
82389.072911	434259.051371	82275.073037	435459.051192
82218.073116	434929.05124	82201.073177	434780.051417
82376.073088	435291.05132	82238.073203	434711.051316
82346.073137	434957.051398	82298.073193	434491.051363
82354.073262	434789.051181	82395.073146	435096.051327
82206.073231	435716.051293	82566.073187	435509.051301
82456.073209	436378.051191	82452.073318	435819.051282
82605.073321	435863.051309	82458.073326	436059.051226
82478.073415	435972.051239	82597.073309	436129.051343
82486.073384	435610.051287	82654.073444	435779.051153
82732.073319	436580.051306	82543.073402	436160.051254
82694.073402	436689.051413	82537.073386	437331.051308
82437.073367	436055.051309	82616.073416	436871.051341
82613.073481	436860.051293	82607.073471	437019.051309
82641.073364	436879.051333	82537.073516	437004.051272
82845.073466	437042.051266	82498.073517	437771.051185
82470.073447	437116.051262	82751.073599	437687.051335
82690.073609	438227.051274	82534.073565	437118.051289
82823.073575	438337.051255	82747.07365	438646.051211
82626.073659	439086.051247	82768.073236	439227.05129
82713.07378	439093.05115	82929.073685	439462.051327
82614.073702	439985.051292	82775.073842	439944.051272
82954.073706	441076.051345	82876.073721	441000.051287
82824.073829	439885.051272	82971.073767	441273.051039
82900.073945	439999.051279	82809.073925	440127.051264
82889.073803	440470.051335	82892.073895	439609.051261
83115.073927	439510.051363	83051.073951	440527.051215
82938.073928	440118.051288	83022.073885	440915.051317
83106.073955	440267.051339	83195.073979	439954.051389
83107.07397	440703.051194	83175.074203	440479.051308
83118.074079	440877.051321	83098.074029	441008.05127
83132.074176	441032.051362	83267.074132	440435.051285
83259.074121	441050.051198	83298.074199	440941.051332
83190.074083	441634.051326	83282.07409	441219.051364
83301.074243	441421.051326	83252.074114	442148.051297
83056.074318	441809.051285	83455.074219	442363.051302
83282.074201	442797.051254	83335.074214	442193.051438
83429.074316	441631.051374	83363.074296	442504.051242
83405.07439	442023.051301	82969.074325	442332.051306
83317.074258	441594.051366	83420.07444	441950.051191

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 9 of 18)

83418.074435	441623.051281	83454.074508	440857.051355
83551.074441	440990.0513	83422.074504	439645.051277
83525.07451	437984.051377	83408.074428	437215.051341
83565.074564	436585.051107	83560.074629	435763.051305
83433.074442	434737.051334	83550.074561	433266.051353
83624.074594	431093.051266	83576.074575	425877.051271
83707.074566	422760.051416	83629.074591	420892.051321
83450.074659	418040.051369	83547.074639	414818.051386
83452.074649	413007.051344	83527.074605	409690.051269
83502.074609	407075.051258	83393.074529	404838.051196
83628.074779	401931.051275	83497.074733	400786.051319
83424.074872	399711.051262	83604.074881	400131.051345
83541.074768	400111.05127	83314.074825	399671.05123
83648.074459	398322.051332	83449.074755	397085.051207
83681.074874	395419.051273	83544.074837	395149.051283
83540.074908	394285.05119	83670.074929	392965.051318
83635.074849	391996.05134	83538.074999	388100.051278
83720.075004	385455.051041	83597.074933	382970.051231
83388.074936	377642.051206	83655.074963	368279.051264
83680.074999	355668.051227	83734.074987	344987.051284
83629.074973	336775.051233	83623.07516	329350.051271
83697.075093	320637.051288	83809.075052	313606.051329
83756.075133	307055.051321	83933.075056	302064.051147
83711.07515	297070.051188	83658.075179	291689.051271
83861.075145	286206.05126	83651.075222	272208.051297
83822.075275	259744.051355	83908.075218	253398.051325
83835.075346	246533.051262	83774.075298	241529.05131
83714.074924	236750.051333	83642.075299	230907.051262
83825.075347	227671.051262	83560.075432	225198.051271
83762.075365	222511.05129	83875.075355	221223.051285
83801.075386	220649.051298	83938.075373	219232.051298
84015.07538	217444.051066	83964.075501	215383.05129
83575.075444	214767.051285	83899.075257	213660.051324
83879.075578	212361.051265	84015.075436	211410.051274
83867.075612	210861.05131	83906.075617	210262.051327
83811.075496	210364.051215	83755.075558	209863.051334
83939.075623	208920.051325	83899.075575	209019.051165
83799.075739	207688.051318	83901.075555	207861.051322
83855.075709	206985.051337	83906.075733	206185.051391
83944.075661	205948.051262	83940.075764	204550.051267
83986.075713	203439.051315	83929.075641	202592.051271
83963.075582	202151.051345	83937.075793	201373.05136
83977.075786	201853.051239	83728.075904	201461.051279
84037.075667	201786.051305	84057.075939	201554.051321
84151.075916	200377.051262	84158.075823	201245.051271
84147.07593	202283.051179	84166.075996	201814.051326
83753.075973	200428.051222	84144.075899	198841.051352
84182.075974	199085.051171	84273.076132	198871.051228
84340.07607	198541.05131	84349.076017	198735.051228
84287.076078	199263.051272	84380.076037	198811.051397
84244.076075	197689.051306	84308.076155	198920.051202
84232.076139	198027.051374	84247.076204	196949.051307

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 10 of 18)

84399.076098	194378.051364	84252.076068	193451.051269
84332.076216	188294.05129	84414.076108	182988.051318
84250.076218	181787.051233	84142.076319	176564.051281
84226.075998	175645.05134	84158.076351	168145.051259
84250.076237	164593.051267	84011.076229	162624.051268
84207.076277	161678.051279	84252.076259	160756.051256
84139.076266	160112.051296	84167.076361	160019.051419
84257.076259	160064.051215	84084.076447	160117.051269
83791.07648	159509.051314	84111.076251	159429.051347
83993.076373	159138.051133	84102.076405	156574.051278
84075.076398	155839.051246	83995.076523	153692.05131
83783.076492	152640.051289	84044.076482	152032.051338
83997.076516	149103.051347	84029.07652	145289.051158
84031.076704	144112.051245	83985.076632	142737.051307
83995.076499	141288.051264	83862.076579	140418.051264
84001.076567	140626.051332	83992.076632	138834.051222
83848.076673	135469.051246	83815.076577	133349.05133
83712.076467	131380.05127	83931.076676	126435.051343
84027.076631	121810.051146	83652.076825	118488.051168
83908.076619	114125.05126	83915.076747	116176.051263
83803.076897	117387.051242	83850.076796	114107.051254
83776.0768	109348.051094	83824.076994	106684.051218
83445.076901	104862.051185	83724.07688	103086.051264
83716.076919	102359.051136	83803.076847	102088.051257
83716.076991	101555.051251	83669.076995	100374.051299
83547.076931	100024.05123	83614.077095	100357.051303
83655.077007	99313.051265	83595.076979	97798.051132
83537.077059	96809.051274	83544.07695	95954.051267
83591.077167	95197.051227	83376.077087	95269.051278
83432.077109	95268.051216	83554.077228	94353.051212
83462.077137	93829.051259	83305.077196	93562.051221
83453.076894	93493.051337	83336.077218	92989.051286
83373.077233	93173.051189	83191.077326	93347.051275
83163.077151	93617.051248	83212.077386	93658.051294
83286.077315	93499.051299	83197.077338	93030.051241
83212.077297	93033.05114	83369.077433	93188.05122
82906.077399	93202.05124	83220.077356	93299.051324
83156.077432	93326.051185	83163.077333	93556.051265
83203.077491	93600.051249	83129.077589	93381.051209
83131.077553	93086.051242	83107.077483	93115.051307
83167.077567	93029.051258	83208.077505	93285.051255
83047.077592	93115.051199	82919.07746	93069.051275
83100.07763	93002.051279	82926.077664	92990.051247
83006.077648	92761.051326	83093.07765	92808.051296
83002.077726	92829.051171	82822.07779	92943.051243
83027.07741	92949.051316	82974.077815	92743.051176
83077.077785	92555.051272	82818.077874	92538.051214
83050.077986	92494.051247	83089.077808	92414.051241
83002.077689	92736.051248	83055.077874	93215.05127
83149.077904	93963.051045	82956.077874	92570.051278
82801.077941	92533.05125	82936.077941	92375.051297

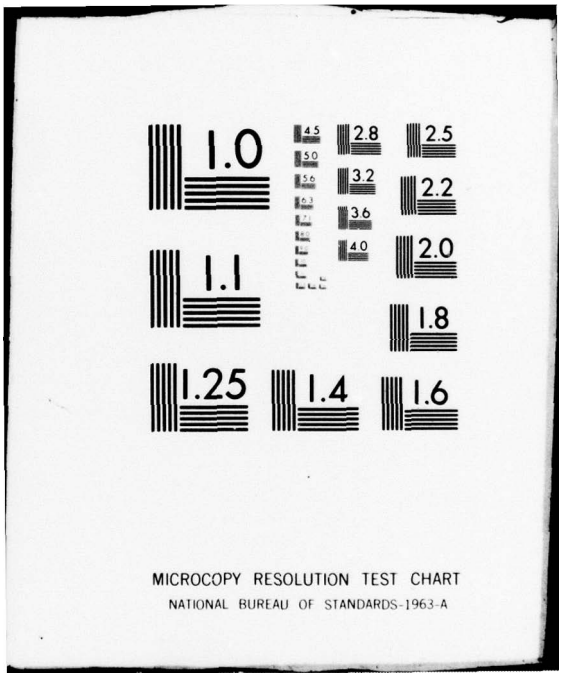
Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 11 of 18)

AD-A062 766 ANALYTICS INC WILLOW GROVE PA F/G 4/1
BREADBOARD DROPSONDE. MINIREFRACTIONSONDE ANALYZER. VOLUME II.(U)
NOV 78 M C WERST N62269-77-C-0095
UNCLASSIFIED NADC-76335-30-VOL-2 NL

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82918.078013	92260.051299	82966.077815	92316.051269
83009.077895	92206.05124	83019.078029	92195.051326
83045.078118	92223.051252	83009.078001	92105.051307
82970.078002	91306.051281	83006.078122	91394.051224
83001.07822	91310.051272	82978.077971	91330.051202
82890.078154	91092.051222	83090.078253	90834.051328
83000.078105	89990.051229	82945.078191	88824.051245
82999.078253	88213.051348	82536.07822	87924.05123
82818.078071	87783.051299	82795.078229	87450.051178
82779.078196	87310.051313	82773.078291	87231.051284
82821.078307	87642.051289	82745.078349	87767.051269
82742.07825	87947.051334	82767.07833	88097.051328
82809.078391	88125.051067	82662.078458	87963.051265
82640.078438	88189.051271	82776.078473	87987.051261
82611.078343	88338.051258	82692.07842	88515.051279
82763.078435	88829.051279	82638.078445	89684.051275
82550.078481	89544.051317	82579.07826	89547.051334
82484.078504	89214.051262	82491.078509	89471.051243
82399.078548	90732.05136	82606.078526	90742.051236
82557.078604	90962.051216	82551.078473	91092.051337
82534.078649	91503.051288	82549.078611	91957.051079
82543.078759	91987.05125	82356.078751	92432.051255
82634.078602	93238.05129	82615.078697	94236.051133
82666.078629	94972.051227	82624.078674	95346.051289
82592.07882	95468.051311	82596.078853	95910.051298
82609.078773	96192.051296	82549.078741	96195.051296
82593.078711	98148.051273	82658.078926	99232.051253
82615.078708	99341.051179	82626.078805	99901.05127
82651.078945	101047.051316	82626.078904	101620.051271
82634.078962	102981.051198	82733.079152	104101.051246
82414.079036	104436.051257	82683.078667	104937.05125
82706.079017	105498.051176	82799.079049	106028.051272
82590.079121	106651.051236	82677.079063	107313.051292
82664.079052	109005.051289	82607.079052	110121.051286
82620.079105	111237.051338	82740.079153	112700.051107
82742.079168	113148.051274	82653.07907	113875.051304
82696.07921	114171.051225	82639.079182	115074.051273
82636.079206	115678.051243	82667.079257	115990.05126
82743.079313	116566.051264	82546.079301	117923.05121
82658.079047	118437.05135	82681.07929	118641.051301
82725.079384	119358.051225	82486.07939	119515.051285
82677.079237	119570.05125	82623.079479	119721.051237
82767.079393	120225.051357	82655.079456	121285.05122
82703.079464	123535.051163	82820.07948	125607.05133
82436.079452	127630.051236	82734.079411	129544.051371
82731.079443	131122.051205	82738.079544	131992.051259
82796.079526	133667.051279	82761.079655	133754.051264
82692.079656	133318.051238	82628.079543	133233.051332
82705.079703	128909.051262	82777.079568	123108.05126
82754.079569	119330.051222	82669.079508	116367.051204
82625.079623	117910.051298	82576.07966	122905.051307

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 12 of 18)

82508.079784	124482.051329	82596.07976	125007.051279
82460.07977	124216.051226	82228.079813	124276.051201
82542.079482	125207.051291	82536.079873	126099.051139
82702.079828	126734.051261	82339.079801	129197.051235
82504.079954	129710.051246	82548.079885	130988.051265
82418.079879	132973.051225	82547.079925	137181.051331
82615.079867	146803.051046	82523.080038	155897.051209
82331.079922	160719.051314	82418.079854	168009.051283
82336.079986	174541.051294	82461.079924	183276.051314
82395.080039	190388.05122	82519.080092	194581.051213
82454.080002	199003.051297	82415.079778	202853.051258
82536.080093	204285.051249	82535.080032	208990.051226
82182.080252	210903.051235	82478.080186	214064.051293
82486.080304	218517.051221	82452.080318	221095.051279
82538.08019	222179.051242	82552.08021	223081.050982
82505.080329	223090.051274	82335.080239	225045.051277
82443.080346	233038.051323	82416.080236	240545.051295
82329.080173	242804.051166	82388.080438	262510.051294
82492.080446	284628.051283	82272.080331	291859.051211
82465.080328	293330.051311	82536.080381	297568.051227
82493.080463	316468.051189	82435.080517	337209.051218
82439.08034	350239.051148	82471.080577	361041.051282
82598.080464	383454.05128	82519.080537	401975.051219
82549.080524	431180.051197	82580.080513	451771.051225
82127.080565	464908.051221	82566.080427	473639.051315
82559.080531	480486.051202	82519.080541	483775.051237
82559.080581	486276.051295	82662.080703	487490.051289
82662.080679	489367.051189	82587.080656	490359.05124
82589.080737	490170.051229	82634.080812	492112.051186
82486.080781	492824.05123	82572.080785	493287.051226
82655.080785	494483.051231	82495.080787	494973.051193
82600.080825	494690.051267	82743.080802	496823.051268
82628.080861	497247.05121	82557.080877	498067.05121
82635.080527	498311.051273	82608.080942	498920.051166
82713.080913	499587.051256	82582.080978	499853.051241
82796.080998	499580.051255	82834.08092	500595.05127
82793.080981	499954.051277	82801.081039	499633.051239
82904.081006	500310.051064	82801.081078	500100.051277
82803.08114	500649.051244	82840.081189	501029.051216
82850.081164	500813.051255	82871.081047	500572.051248
82986.081119	500829.051253	83020.081168	500676.051242
82922.081213	501347.05121	82848.08091	501018.051279
82841.081158	501187.051282	82942.081267	501449.051216
82790.081279	501468.051207	82988.081145	501226.051193
82961.081405	501938.051189	83026.081232	501701.051214
82984.081265	500426.051214	83081.081458	501051.050951
82948.081425	501314.051223	82835.081387	501244.05119
83045.081441	501664.051237	83030.081406	501742.05123
83087.08138	500501.051176	83191.08149	501513.05119
83044.08147	501308.051206	82964.081483	501566.051208
83031.081465	501329.051283	83047.081553	501391.051255

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 13 of 18)

83042.081488	501033.051199	82958.08163	501242.051206
83033.081427	501829.051193	83005.081592	501812.051207
83073.081522	501727.051184	83024.081601	499916.051265
83121.081666	500660.051127	83096.081799	501191.051119
82649.081738	500947.051225	83030.081527	501052.051228
82987.081736	501763.051147	83194.081661	500344.051178
83094.08171	501402.051198	83042.081819	500992.051175
83125.08172	501227.051229	83059.081681	500971.051286
83083.081807	500513.051246	83238.081811	500980.051189
83103.08189	501077.051156	83076.081682	501200.051171
83181.081804	501248.051204	83158.08193	500972.051204
83151.081949	499959.05123	83156.081909	500292.051191
83147.082097	500221.051194	82850.082111	501370.051215
83163.081763	500047.051179	83209.082096	500637.051027
83117.081954	500443.051203	83081.082078	500288.051197
83139.082055	500508.051258	83107.082063	500739.051163
83119.0821	499636.051263	83126.082085	499807.051243
83205.082133	500064.051086	83087.082214	499975.051302
83134.081985	499760.051223	83152.082164	499340.051139
83169.082173	498800.051304	83178.082152	497548.051212
83121.082268	497835.051166	83167.082265	497270.051251
83102.082265	497229.051214	83247.08207	496757.051232
83237.082218	496699.05111	83249.082348	496232.051254
83137.082297	495862.051177	83227.082338	495675.051237
83198.082427	495522.051268	83258.08232	494819.051297
83140.082395	493973.051227	83292.08241	494101.051102
83307.082456	494200.051237	83147.082407	493604.051212
83268.082439	493896.051283	83187.082477	493849.051201
83210.082462	492348.051253	83288.082546	493464.051284
83291.082597	492718.051226	83286.082609	492434.051257
83294.08229	492035.05123	83159.082619	492097.0512
83370.082628	491341.051238	83170.082695	490729.051239
83407.082755	490784.051219	83266.082655	490601.051273
83268.08264	490186.051267	83234.08278	489307.051213
83352.082791	489954.051082	83434.08284	489322.05119
83151.082761	490018.0512	83271.08274	489245.051254
83443.082954	488556.051242	83442.082849	488318.051279
83393.082888	488749.051149	83450.083025	488650.051255
83455.083053	490207.051208	83414.082802	489653.051252
83478.082996	490246.051252	83564.082978	490571.051178
83227.083115	490391.051258	83608.082936	490558.051227
83453.083068	491025.051234	83507.083121	491020.051274
83490.08305	489516.051216	83494.083109	490167.051079
83526.083218	490251.051252	83211.083094	489597.051188
83556.083161	489367.051244	83489.083157	489021.051262
83511.083157	487655.051193	83562.083281	488318.051238
83489.083316	487906.051222	83436.0834	488407.051211
83476.083229	487990.05124	83548.083325	487652.051223
83622.083301	487317.051207	83443.083405	487010.051258
83581.083241	486283.051216	83450.083401	486689.051254
83458.083327	486152.051331	83535.083499	485023.051249

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 14 of 18)

83570.083444	485416.051038	83542.083469	484590.051245
83276.083504	484161.051162	83558.083418	483625.051272
83596.083507	484005.051233	83599.083456	482377.05119
83585.083555	483029.051264	83552.083591	482689.051264
83540.0836	482597.051217	83704.083656	482356.051236
83598.083618	482199.051177	83680.083532	482255.051252
83642.083617	481732.051188	83600.083485	481171.051211
83636.083732	481349.051233	83630.08371	480751.051211
83571.083698	479659.051258	83607.083682	480903.051165
83611.08374	480223.051232	83410.083808	480155.051257
83716.083649	479704.051225	83730.08383	479583.051178
83811.083747	479249.051206	83876.083996	479939.051225
83848.083968	479355.051204	83821.083823	479592.051157
83859.083962	479481.051218	83863.083843	479062.051266
83975.083828	479169.051108	83896.084109	478739.0512
83826.083815	479268.051207	83863.083953	479064.05122
83826.084084	479416.051226	83858.084058	478514.051267
83883.084004	478904.051148	83897.084121	478705.051166
83619.08414	479072.051119	83940.083956	478771.051245
83961.084186	479150.051132	83963.084066	478734.051198
83971.084084	479056.051216	83982.084196	478935.051188
84095.084259	479714.051136	84035.084176	479488.051224
83961.084205	479714.051204	84197.084131	479540.051162
84152.084218	479989.051181	84008.084161	480254.051138
84129.084331	480891.051167	84069.084327	480972.051237
84019.08423	480341.051181	84117.084299	480964.051252
84229.084428	480867.051174	83853.084414	481281.051089
84239.084198	481079.05128	84215.084429	480982.051093
84288.084493	481602.051254	84356.08446	481351.051249
84366.08462	481388.051185	84381.084556	482229.051153
84382.084442	481526.051266	84433.084542	481404.051259
84517.084542	482457.051196	84531.084687	482495.051236
84493.084507	482840.051199	84355.084631	483815.051247
84462.084696	483646.051322	84502.084711	482588.051233
84479.084755	483792.051253	84508.084831	483494.051206
84206.084778	484524.051242	84463.084551	484338.051275
84503.084909	484618.051127	84625.084917	485051.051201
84491.0849	485055.051148	84634.084996	485749.051248
84579.084849	486222.051205	84632.084863	485857.051276
84678.084924	486321.05119	84619.084914	486920.051144
84610.085	487418.051271	84735.084864	488049.051205
84651.085109	488545.051236	84676.084993	488795.051213
84771.08508	488055.051189	84743.085124	489317.051192
84834.085129	489247.051256	84661.085179	489642.05119
84895.084878	489368.051225	84804.085117	490090.051168
85031.085235	489780.051202	84886.085295	490625.051241
84965.085334	490985.051237	85029.085248	490941.051096
84943.085262	491148.051214	84923.085201	491047.051246
84919.08525	491292.051191	84968.085413	491799.051268
84840.08523	492053.05119	84865.085391	492339.051203
84939.085306	492897.051245	84844.08534	491863.051284
84981.085424	492446.051184	85083.08549	492200.051152

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 15 of 18)

84685.085486	492429.051155	84894.085136	492295.051203
85014.085557	492489.051079	85099.08556	492308.051246
85029.085617	492889.051212	85113.085539	492724.051213
85092.085473	492981.051124	85051.085501	492716.051286
85109.08553	492295.051249	85170.085537	492704.051117
85056.08574	493132.051201	85083.085478	493064.051199
85082.085599	493117.05119	85081.085767	493403.051207
85077.085641	492373.051196	85062.085691	492578.051166
85148.085784	492295.051161	84814.085734	492697.051217
85111.085444	491948.051229	86066.085947	492457.051042
85204.085817	492073.051126	85180.085805	492519.051122
85131.085875	492541.05117	85184.085862	492581.051173
85240.085747	491557.051168	85158.085872	492082.051251
85197.085878	492247.051096	85044.085898	491919.051249
85046.085839	492203.051131	85102.085889	492821.051211
85120.085913	492733.051274	85071.085968	491731.051161
85103.08601	492284.051244	85169.085993	491784.051203
84801.086082	492227.051147	85267.085848	491791.05127
85192.086082	492261.051124	85217.086125	492418.051231
85398.08616	492334.051181	85309.086191	492059.051239
85287.086255	492832.051176	85437.08619	491719.051238
85306.086245	491916.05126	85337.086223	492479.051247
85373.086308	492355.051231	85313.086205	492198.051136
85282.086437	492902.051199	85360.086317	492849.051216
85406.086379	491315.051193	85375.086425	492867.051255
85401.0865	491638.051182	85075.086494	492224.051109
85382.08634	492465.051228	85382.086559	492450.051151
85522.086504	492149.051224	85517.086531	492578.05119
85514.086645	492561.051242	85331.086486	492322.051162
85450.08659	492015.051247	85503.086587	491818.051209
85428.086546	492210.051247	85441.086711	492095.0512
85423.086455	492079.051092	85439.086664	492747.05119
85487.086663	492135.051255	85603.086726	491002.051206
85534.086747	492154.051153	85488.086851	491829.051202
85153.086828	492240.051093	85496.086697	491901.051284
85627.086823	492344.051267	85717.086791	491364.051149
85723.086939	491661.051209	85719.086809	492064.05124
85611.086924	492389.051184	85676.086928	491815.051207
85644.086889	491885.051195	85680.08696	491716.051167
85767.087119	492071.051118	85502.086793	492892.051103
85608.087014	492878.051202	85703.087027	492425.051194
85722.087134	491720.051161	85682.087065	491575.050977
85725.087216	492283.051167	85260.087117	492612.051161
85718.087042	492833.051198	85732.087086	492513.051125
85886.087133	491989.051127	85767.087123	492731.051143
85861.087165	492263.051163	85881.087151	492866.051234
85835.087255	492478.051258	85819.087205	492518.051224
85817.087205	492833.051145	85637.087294	493032.051141
85926.087141	492895.051202	85905.087231	493258.051148
85945.087409	493056.051182	86038.087378	492060.051251
86025.08741	492621.050952	85997.087575	492421.051214

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85720.087403	493143.051302	86056.087419	492887.051232
86012.087514	492820.051142	86027.087415	492642.051213
86015.087424	492813.051222	86033.087579	493061.05123
86125.087655	493583.05123	85912.067387	492866.051278
86029.087643	493468.051228	86029.087535	493480.051197
85907.087659	493041.051211	86239.087638	493039.051262
86148.087751	493934.051152	86159.087748	493428.051175
86179.087794	492551.051215	86241.087742	493201.050991
86171.08791	493092.051216	86047.087847	493361.051173
86192.087932	493558.051159	86085.087819	494058.051291
86271.087783	492836.051215	86336.087772	492853.051135
86402.087991	493470.051261	86388.087951	493554.051247
86349.087681	492928.051239	86278.087985	493959.051175
86317.087807	291359.051279	86249.088033	493538.051161
86416.088082	493437.051155	86428.088119	493766.051173
86423.088055	493204.051192	86353.088153	492786.051225
86499.088142	493567.051031	86452.088281	492982.051147
86449.088376	493630.05121	86507.088109	493530.051133
86295.088122	493451.051219	86561.088249	492208.051216
86372.088209	493146.051162	86531.088371	492800.051096
86535.088312	493290.05117	86420.087963	492942.051184
86454.088317	492760.051049	86565.088272	493283.051206
86400.088367	492781.051135	86563.088573	492903.051068
86427.08839	492946.051162	86449.088346	492093.05122
86473.088427	491554.05117	86568.088595	492379.051096
86507.088659	491736.051196	86559.088476	491892.051065
86509.088594	492285.051139	86538.088566	492058.051268
86532.088547	490932.051209	86643.088737	491392.051235
86661.088695	491637.051239	86342.088722	491619.051095
86542.088384	491154.051233	86591.08859	491557.051115
86677.088851	490533.05119	86656.088884	490666.051192
86689.088881	490844.051182	86554.088857	490719.051186
86768.088831	490116.051259	86730.088972	489702.05125
86816.088937	490064.051224	86757.089028	490404.051138
86662.088786	490253.051128	86787.088905	490176.051223
86860.088877	489781.051255	86804.089066	488901.051216
86786.08904	490031.051183	86679.089091	489917.051186
86268.089091	490026.051194	86658.088834	490047.051283
86751.089158	489566.051078	86865.08905	489274.051173
86784.089003	489841.051183	86728.089276	488874.051146
86771.08919	489208.05124	86749.089202	488293.051197
86842.089327	488180.051192	86866.089137	488358.051166
86793.089318	487227.051055	86814.089139	487328.051169
86876.089157	487226.051174	86900.08925	486087.051194
86978.089343	485503.051193	86931.089361	485991.05098
86948.089468	485492.051179	86599.089423	486799.051137
86993.089381	486313.051158	86977.089315	486739.051232
86982.089411	486366.051182	87028.089507	486572.051171
87083.089506	486494.051147	87000.089587	487150.051127
87098.08939	486045.051189	87151.08955	486748.051222
87185.089655	486701.051162	87017.089605	487075.051185

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 17 of 18)

87143.089445	487045.05116	87192.089709	486641.051142
87303.089614	486848.051233	87166.089736	486267.051242
87332.089796	486882.050996	87270.08978	486335.051208
87067.089771	486033.051195	87406.089793	485591.051232
87228.089808	485287.051153	87272.089854	483132.051177
87379.089882	483349.051163	87375.089946	482795.051147
87351.090012	482621.051232	87379.089568	482406.051268
87333.09008	482048.051089	87435.090034	481543.051147
87324.090097	481462.051177	87496.090164	479957.051144
87528.090024	479936.051246	87531.090109	479535.051202
87481.090142	478449.051237	87632.090223	479523.051096
87424.090264	479528.051214	87439.090127	479526.051157
87423.090177	479680.051185	87413.09027	478295.051206
87515.090218	475402.051146	87507.090321	473320.051125
87474.090389	469535.051164	87257.090417	464877.05114
87500.090018	455241.051197	87651.090375	446158.05103
87603.090383	437567.051172	87751.090457	430292.051195
87745.090369	423775.051179	87579.090449	417973.05114
87704.090352	411656.051285	87769.090402	407314.051217
87761.090538	404246.051108	87754.090558	403311.051137
87685.090232	402401.051039	87670.090618	401156.051095
87704.090456	400461.051217	87635.090593	396976.051162
87785.090686	395062.051073	87737.090716	392944.051131
87298.090711	390140.051109	87761.090552	387634.05124
87743.090662	385897.051168	87910.090716	382728.051265
87934.090711	378850.051136	87890.090869	374196.051116
87783.090747	370171.05129	87814.090718	366865.051215
87832.090934	365023.051197	87920.090759	363340.051211
87826.087974	361774.051111	88008.090904	360527.051134
88029.090932	359977.051166	88000.090959	359022.051168
87973.091089	356808.06145	88115.091068	357162.051063
88025.091202	356896.051165	87912.091159	357521.051209
88044.091086	357382.051139	88019.091055	356961.051246
88169.091044	356731.051189	88105.091188	356046.051194
88084.091259	355443.051197	88061.09119	355642.051242
87943.090854	354918.051267	87999.091263	355257.051224
88048.091263	355149.051109	87986.091494	354648.05115
88093.091313	355049.051224	88057.091385	355443.051193
88144.091336	355312.051204	88024.091299	354865.051171
88226.091572	356657.050995	88184.091605	357678.051187
88100.09145	359164.05114	88082.091438	360572.051155

Figure L-1. Wallops No. 3 Data Acquired in Third Run of Conditioner-Decommutator (Page 18 of 18)