

Snow

Creek

CITY OF WICKBURY FIS 10, 50, 100, & 500 YEAR FLOODS  
10 YEAR FLOOD COVERED BY RRB CHECKED BY GAB  
SNOW COVER

2H .05-.12  
05 .04-.12

| Account         | 10 Year | 50 Year | 100 Year | 500 Year | RRB | Checked | By | Year |
|-----------------|---------|---------|----------|----------|-----|---------|----|------|
| 1.000 I1        |         |         |          |          |     |         |    |      |
| 2.000 I2        |         |         |          |          |     |         |    |      |
| 3.000 I3        |         |         |          |          |     |         |    |      |
| 4.000 J1        |         |         |          |          |     |         |    |      |
| 5.100 J3        |         |         |          |          |     |         |    |      |
| 5.110 J3        |         |         |          |          |     |         |    |      |
| 5.130 J6        |         |         |          |          |     |         |    |      |
| 6.000 MC        |         |         |          |          |     |         |    |      |
| 7.000 O1        |         |         |          |          |     |         |    |      |
| 8.000 X16801.1  |         |         |          |          |     |         |    |      |
| 8.100 GR 976.0  |         |         |          |          |     |         |    |      |
| 8.110 GR 945.0  |         |         |          |          |     |         |    |      |
| 8.120 GR 552.5  |         |         |          |          |     |         |    |      |
| 9.000 X16801.2  |         |         |          |          |     |         |    |      |
| 11.000 GR 976.2 |         |         |          |          |     |         |    |      |
| 12.000 GR 953.2 |         |         |          |          |     |         |    |      |
| 13.000 SB       |         |         |          |          |     |         |    |      |
| 14.000 X16801.3 |         |         |          |          |     |         |    |      |
| 15.000 X2       |         |         |          |          |     |         |    |      |
| 16.000 RT 7     |         |         |          |          |     |         |    |      |
| 17.000 RT 396   |         |         |          |          |     |         |    |      |
| 18.000 RT 776.5 |         |         |          |          |     |         |    |      |
| 19.000 MC .06   |         |         |          |          |     |         |    |      |
| 20.000 X16801.4 |         |         |          |          |     |         |    |      |
| 21.000 RT 4     |         |         |          |          |     |         |    |      |
| 22.000 MC .05   |         |         |          |          |     |         |    |      |
| 23.100 GR 995.0 |         |         |          |          |     |         |    |      |
| 23.110 GR 958.0 |         |         |          |          |     |         |    |      |
| 23.120 GR 866.0 |         |         |          |          |     |         |    |      |
| 23.130 GR 973.0 |         |         |          |          |     |         |    |      |
| 24.000 X16802.2 |         |         |          |          |     |         |    |      |
| 25.000 X3 10    |         |         |          |          |     |         |    |      |
| 26.000 GR 993.5 |         |         |          |          |     |         |    |      |
| 27.000 GR 960.2 |         |         |          |          |     |         |    |      |
| 28.000 GR 974   |         |         |          |          |     |         |    |      |
| 29.000 SU 1.38  |         |         |          |          |     |         |    |      |
| 30.000 X16802.3 |         |         |          |          |     |         |    |      |
| 31.000 X3       |         |         |          |          |     |         |    |      |
| 32.000 X3 10    |         |         |          |          |     |         |    |      |
| 33.000 RT 8     |         |         |          |          |     |         |    |      |
| 34.000 RT 598   |         |         |          |          |     |         |    |      |
| 35.000 RT 982   |         |         |          |          |     |         |    |      |
| 36.000 MC .07   |         |         |          |          |     |         |    |      |
| 37.000 X16802.4 |         |         |          |          |     |         |    |      |
| 37.100 GR1018.0 |         |         |          |          |     |         |    |      |
| 37.110 GR 761.0 |         |         |          |          |     |         |    |      |
| 37.120 GR 971.0 |         |         |          |          |     |         |    |      |
| 38.000 MC .05   |         |         |          |          |     |         |    |      |
| 39.000 X15802.5 |         |         |          |          |     |         |    |      |
| 40.000 GR 1020  |         |         |          |          |     |         |    |      |
| 41.000 GR 972.8 |         |         |          |          |     |         |    |      |
| 42.000 GR 1020  |         |         |          |          |     |         |    |      |
| 43.000 O1 4     |         |         |          |          |     |         |    |      |

|         |          |        |        |        |        |        |        |        |
|---------|----------|--------|--------|--------|--------|--------|--------|--------|
| 72.000  | X16806.3 | 11     | 945.5  | 962.5  | 55.0   | 55.0   | 55.0   | 10     |
| 73.000  | X2       | 300    | 1067.5 | 1038.1 | 1038.5 | 1040   | 1038.1 | 1038.1 |
| 75.000  | BT       | 1038.5 | 1038.1 | 890    | 1038.5 | 1176   | 945.5  | 1693   |
| 76.000  | BT       | 1935   | 1066   | 1066   |        |        | 1910   |        |
| 77.000  | BT       | 200    | 1056   | 503    | 1040.5 | 830    | 944.5  | 945.5  |
| 78.000  | BR1072.5 | 962.5  | 1038.1 | 962.5  | 1038.5 | 1060   | 1176   | 1683   |
| 79.000  | BR1072.5 | 1935   |        |        |        |        |        |        |
| 80.000  | BR       | 1066   |        |        |        |        |        |        |
| 81.000  | BR       | .04    |        |        |        |        |        |        |
| 82.000  | BR       | 18     | 600    | 652    | 515    | 515    |        |        |
| 83.000  | X3       | 10     |        |        |        |        |        |        |
| 83.100  | BR1065.0 | 200    | 1059.0 | 350    | 1056.0 | 415    | 1039.0 | 495    |
| 83.110  | BR1037.5 | 588    | 1039.0 | 600    | 1035.0 | 610    | 1033.5 | 616    |
| 83.120  | BR1033.5 | 621    | 1035.0 | 659    | 1039.0 | 652    | 1037.5 | 704    |
| 83.130  | BR1039.5 | 850    | 1062.0 | 1029   | 1074.0 | 1217   |        | 770    |
| 84.000  | BR       | .09    | .06    | .3     | .5     |        |        |        |
| 85.000  | BT       | 573    | 950    | 1138   | 1430   | 2480   |        |        |
| 86.000  | X1       | 18     | 537    | 572    | 2480   | 2480   |        |        |
| 87.000  | X3       | 10     |        |        |        |        |        |        |
| 87.100  | GR1088.0 | 200    | 1078.0 | 340    | 1068.0 | 414    | 1061.0 | 450    |
| 87.110  | GR1060.0 | 483    | 1059.0 | 557    | 1056.0 | 543    | 1053.7 | 544    |
| 87.120  | GR1053.7 | 557    | 1056.0 | 558    | 1059.0 | 572    | 1061.0 | 672    |
| 87.130  | GR1072.0 | 802    | 1083.0 | 870    | 1088.0 | 953    |        | 712    |
| 88.000  | BR       | .08    | .05    | .3     | .5     |        |        |        |
| 89.000  | BT       | 342    | 594    | 724    | 959    | 1590   |        |        |
| 90.000  | X16808.1 | 20     | 578    | 618    | 1590   | 318    | 1090.5 | 383    |
| 90.100  | GR1106.0 | 200    | 1100.5 | 241    | 1098.0 | 578    | 1079.0 | 593    |
| 90.110  | GR1086.0 | 432    | 1082.0 | 494    | 1079.0 | 605    | 1078.0 | 618    |
| 90.120  | GR1072.0 | 598    | 1072.0 | 604    | 1075.0 | 682    | 1103.0 | 661    |
| 90.130  | GR1088.5 | 753    | 1093.0 | 785    | 1104.0 | 882    | 1106.5 | 1095   |
| 91.000  | X16808.2 | 11     | 837    | 843    | 80     | 80     |        |        |
| 92.000  | X3       | 10     |        |        |        |        |        |        |
| 93.000  | GR       | 1105   | 300    | 300    | 1087.5 | 630    | 1084   | 1080   |
| 94.000  | GR1073.5 | 837.1  | 1073.5 | 842.9  | 1079.3 | 843    | 1087.3 | 837    |
| 95.000  | GR       | 1109   |        |        |        |        |        |        |
| 96.000  | BR       | 1.55   | 2.7    | 0      | 4.55   | 26.42  | 0      | 1073.5 |
| 97.000  | X16808.3 | 77.000 | 837    | 843    | 44.2   | 44.2   | 44.2   | 1073.9 |
| 98.000  | X2       | 1      | 1079.7 | 1083   |        |        |        |        |
| 99.000  | X3       | 10     |        |        |        |        |        |        |
| 100.000 | BT       | 200    | 1109   | 837.8  | 300    | 1105   | 1083   | 1083   |
| 101.000 | BT       | 1084   | 1022   | 1097   | 1083   | 1079.7 | 1083   | 630    |
| 102.000 | BT       | .05    | .04    |        |        | 1196   | 1083   | 1083   |
| 103.000 | BR       | 20     | 740    | 784    | 100    | 100    | 100    | 932    |
| 104.000 | X16808.4 | 200    | 1105.5 | 258    | 1104.0 | 304    | 1103.0 | 1083   |
| 104.100 | GR1108.5 | 430    | 1097.0 | 495    | 1095.0 | 556    | 1095.0 | 630    |
| 104.110 | GR1100.0 | 740    | 1078.5 | 749    | 1076.4 | 759    | 1076.3 | 1087.5 |
| 101.120 | GR1080.5 | 769    | 1081.0 | 784    | 1086.5 | 846    | 1097.0 | 1079.7 |
| 104.130 | GR1078.5 |        |        |        |        |        |        | 932    |
| 105.000 | EJ       |        |        |        |        |        |        |        |
| 106.000 | T1       |        |        |        |        |        |        |        |
| 107.000 | T2       |        |        |        |        |        |        |        |
| 108.000 | T3       |        |        |        |        |        |        |        |
| 109.000 | J1       |        |        |        |        |        |        |        |
| 110.000 | J2       |        |        |        |        |        |        |        |
| 111.000 | T1       |        |        |        |        |        |        |        |

CITY OF HICKORY FIS 10, 50, 100, & 500 YEAR FLOODS  
50 YEAR FLOOD  
SNOW CREEK  
-1-  
CITY OF HICKORY FIS 10, 50, 100, & 500 YEAR FLOODS  
-1-  
956.3



112.000 J2 100 YEAR FLOOD  
 113.000 T3 SHOH CREEK  
 114.000 J1 -10  
 115.000 J2 5  
 116.000 T1 CITY OF HICKORY LIS 10, 50, 100, & 500 YEAR FLOODS  
 117.000 J2 500 YEAR FLOOD  
 118.000 J3 SHOH CREEK  
 119.000 J1 10  
 120.000 J2 15  
 121.000  
 122.000  
 123.000  
 124.000 LR  
 END III AFTER 124.

956.9  
 957.6

FLOOD INSURANCE ZONE DATA FOR SHAW CREEK

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

| SECTION NUMBER         | CUMULATIVE DISTANCE | ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND |      |
|------------------------|---------------------|---|------|
|                        |                     | 10'   | 0.2' |
| 6801.102               | 0.                  | -2.20                                       | .70  |
| 6801.199               | 94.                 | -1.68                                       | .53  |
| 6801.301               | 121.                | -1.68                                       | .59  |
| 6801.398               | 170.                | -1.78                                       | .51  |
| 6802.102               | 2970.               | -1.49                                       | .37  |
| 6802.199               | 3154.               | -1.64                                       | .38  |
| 6802.301               | 3175.               | -1.07                                       | .66  |
| 6802.398               | 3260.               | -3.79                                       | .71  |
| 6802.500               | 6380.               | -1.63                                       | .47  |
| 6803.000               | 8020.               | -1.39                                       | .34  |
| 6804.102               | 10690.              | -1.53                                       | .39  |
| 6804.199               | 10670.              | -1.20                                       | .38  |
| 6804.301               | 10690.              | -1.51                                       | .39  |
| 6804.398               | 10790.              | -2.47                                       | .71  |
| 6805.000               | 12080.              | -.89  | .26  |
| 6806.102               | 15600.              | -1.26                                       | .35  |
| 6806.199               | 15630.              | -.94  | .38  |
| 6806.301               | 15685.              | -1.91                                       | .75  |
| 6806.398               | 16200.              | -1.40                                       | .33  |
| 6807.000               | 18680.              | -1.20                                       | .39  |
| 6807.102               | 20270.              | -1.46                                       | .38  |
| 6808.199               | 20350.              | -2.65                                       | .35  |
| 6808.301               | 20374.              | -2.38                                       | .24  |
| 6808.398               | 20374.              | -1.46                                       | .25  |
| WEIGHTED AVG FOR REACH |                     | -1.64                                       | .41  |
|                        |                     |   | .62  |

FIH FOR THE REACH = .015 WITH 70.7' OF THE REACH WITHIN .5 FEET ZONE FOR THE REACH = A 3

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

| INC NO. | TOTAL LENGTH | WEIGHTED AVG DIFFERENCE BETWEEN BASE FLOOD AND |      |
|---------|--------------|--|------|
|         |              | 10'  | 0.2' |
| 51      | 8670.        | -2.05  | .50  |
|         |              |  | .80  |

FIH FOR REACH 1 = .020 WITH 86.7' OF THE REACH WITHIN 1.0 FEET

ZONE FOR THE REACH = A 4

120 20400. -1.40 -.30 .46

FHE FOR REACH 2 = 015 WITH 94. OF THE REACH WITHIN .5 FEET

ZONE FOR THE REACH = A 3

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HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR - 01,02  
MODIFICATION - 50,51,52,53  
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SHOH CREEK

SUMMARY PREVIOUS

| SECDN    | OLUSS | ELMIN  | CUSFTL | VLOR | VCH   | VRGE | 10K*5  | AREA    | HL    | TOP91D | IR   | THLED |
|----------|-------|--------|--------|------|-------|------|--------|---------|-------|--------|------|-------|
| 6801.102 | .00   | 944.70 | 944.70 | 1.22 | 5.66  | 1.23 | 43.68  | 438.44  | .00   | 127.54 | .45  | 4.00  |
| 6801.102 | .00   | 947.70 | 947.70 | 1.75 | 6.52  | 1.69 | 45.35  | 656.12  | .00   | 175.06 | .54  | 4.00  |
| 6801.102 | .00   | 948.70 | 948.70 | 1.88 | 6.72  | 1.81 | 49.24  | 751.95  | .00   | 166.98 | .56  | 4.00  |
| 6801.102 | .00   | 949.70 | 949.70 | 2.08 | 7.11  | 2.04 | 45.07  | 879.91  | .00   | 172.72 | .60  | 4.00  |
| 6801.199 | -.32  | 948.70 | 948.70 | 2.21 | 10.63 | 3.48 | 219.78 | 259.35  | 2.11  | 111.63 | 1.17 | 4.00  |
| 6801.199 | -.33  | 947.70 | 947.70 | 2.90 | 12.17 | 3.27 | 235.13 | 407.61  | 2.76  | 144.96 | 1.70 | 4.00  |
| 6801.199 | -.31  | 946.70 | 946.70 | 3.03 | 12.16 | 3.14 | 215.87 | 488.59  | 2.07  | 160.29 | 1.59 | 4.00  |
| 6801.199 | -.30  | 946.70 | 946.70 | 3.23 | 12.43 | 3.76 | 206.11 | 589.05  | 1.98  | 170.26 | 1.53 | 4.00  |
| 6801.301 | -.56  | 947.00 | 947.00 | 3.21 | 10.63 | 2.30 | 222.62 | 257.62  | .56   | 111.11 | 1.31 | 4.00  |
| 6801.301 | -.56  | 947.00 | 947.00 | 2.86 | 11.92 | 3.23 | 222.33 | 419.56  | .56   | 147.32 | 1.61 | 4.00  |
| 6801.301 | -.55  | 947.00 | 947.00 | 3.05 | 12.24 | 3.45 | 219.68 | 484.14  | .55   | 159.52 | 1.62 | 4.00  |
| 6801.301 | .00   | 947.00 | 947.00 | 3.26 | 12.56 | 3.79 | 211.93 | 581.75  | .00   | 169.72 | 1.59 | 4.00  |
| 6801.398 | .36   | 947.00 | 947.00 | 1.90 | 5.70  | 2.58 | 30.97  | 492.73  | .19   | 161.02 | .43  | 4.00  |
| 6801.398 | .38   | 947.00 | 947.00 | 2.19 | 6.03  | 3.16 | 19.34  | 727.09  | .17   | 180.26 | .33  | 4.00  |
| 6801.398 | .38   | 947.00 | 947.00 | 2.30 | 6.22  | 3.38 | 19.51  | 802.72  | .18   | 185.51 | .34  | 4.00  |
| 6801.398 | .36   | 947.00 | 947.00 | 2.49 | 6.58  | 3.70 | 20.50  | 899.55  | .18   | 192.02 | .38  | 4.00  |
| 6802.102 | .09   | 950.00 | 950.00 | 2.95 | 6.09  | 1.13 | 39.85  | 375.78  | 8.58  | 168.81 | .51  | 2.00  |
| 6802.102 | .11   | 950.00 | 950.00 | 3.49 | 6.82  | 2.33 | 39.95  | 589.33  | 8.36  | 207.63 | .56  | 2.00  |
| 6802.102 | .11   | 950.00 | 950.00 | 3.63 | 7.00  | 2.03 | 39.38  | 667.80  | 8.31  | 213.36 | .56  | 2.00  |
| 6802.102 | .09   | 950.00 | 950.00 | 3.98 | 7.19  | 2.66 | 38.25  | 774.27  | 8.28  | 217.80 | .57  | 2.00  |
| 6802.199 | .66   | 949.60 | 949.60 | .00  | 10.83 | .00  | 177.11 | 165.23  | 1.78  | 23.36  | 1.82 | 2.00  |
| 6802.199 | 1.31  | 949.60 | 949.60 | .00  | 14.28 | .00  | 270.62 | 194.50  | 2.55  | 23.59  | 3.17 | 2.00  |
| 6802.199 | 1.60  | 949.60 | 949.60 | .00  | 15.57 | .00  | 310.47 | 203.78  | 2.87  | 23.67  | 3.76 | 2.00  |
| 6802.199 | -.64  | 949.60 | 949.60 | .00  | 17.27 | .00  | 363.46 | 217.57  | 5.96  | 23.78  | 4.63 | 4.00  |
| 6802.301 | .10   | 960.60 | 960.60 | .00  | 9.80  | .00  | 133.75 | 182.66  | .32   | 23.50  | 1.49 | 4.00  |
| 6802.301 | .30   | 960.60 | 960.60 | .00  | 11.78 | .00  | 159.79 | 235.74  | .42   | 23.92  | 2.16 | 4.00  |
| 6802.301 | .00   | 960.60 | 960.60 | .00  | 15.20 | .00  | 290.61 | 208.74  | .03   | 23.70  | 3.59 | 4.00  |
| 6802.301 | .00   | 960.60 | 960.60 | .00  | 16.75 | .00  | 334.45 | 224.35  | .00   | 23.83  | 4.55 | 4.00  |
| 6802.398 | .36   | 961.00 | 961.00 | 1.87 | 5.17  | 2.04 | 26.30  | 521.59  | .37   | 160.18 | .51  | 4.00  |
| 6802.398 | .60   | 961.00 | 961.00 | 1.90 | 3.96  | 1.85 | 9.30   | 1089.67 | .15   | 210.02 | .15  | 4.00  |
| 6802.398 | 1.03  | 961.00 | 961.00 | 1.97 | 3.99  | 1.89 | 8.56   | 1243.56 | .14   | 221.72 | .15  | 4.00  |
| 6802.398 | 1.27  | 961.00 | 961.00 | 1.88 | 3.64  | 1.75 | 5.87   | 1631.64 | .10   | 248.79 | .12  | 4.00  |
| 6802.500 | .09   | 972.80 | 972.80 | 1.56 | 6.91  | 1.73 | 47.31  | 401.18  | 11.48 | 133.55 | .60  | 2.00  |
| 6802.500 | .18   | 972.80 | 972.80 | 2.59 | 8.15  | 2.24 | 53.42  | 571.21  | 9.78  | 158.57 | .76  | 2.00  |
| 6802.500 | .19   | 972.80 | 972.80 | 2.75 | 8.41  | 2.37 | 52.67  | 749.39  | 9.55  | 168.71 | .78  | 2.00  |
| 6802.500 | .20   | 972.80 | 972.80 | 2.92 | 8.61  | 2.51 | 49.59  | 774.36  | 8.65  | 184.07 | .77  | 2.00  |



| SECID    | QLOSS | ELMIN   | CMSL    | ULOR    | VCH   | VRQB | 10K*5  | AREA    | HL    | TOPWD  | HV   | TULEU |
|----------|-------|---------|---------|---------|-------|------|--------|---------|-------|--------|------|-------|
| 6803.000 | .00   | 1003.00 | 1010.01 | 1.05    | 4.45  | .00  | 112.70 | 201.27  | 19.47 | 71.70  | .60  | 2.00  |
| 6803.000 | .01   | 1003.10 | 1010.10 | .71     | 5.14  | .00  | 105.43 | 203.59  | 19.30 | 69.13  | .78  | 2.00  |
| 6803.000 | .03   | 1003.20 | 1010.20 | 2.93    | 9.31  | .00  | 105.53 | 203.56  | 19.30 | 69.92  | .87  | 2.00  |
| 6803.000 | .07   | 1003.30 | 1010.30 | 3.18    | 9.50  | .00  | 107.43 | 204.28  | 19.16 | 107.72 | 1.01 | 2.00  |
| 6804.199 | .09   | 1003.40 | 1010.40 | 1.05    | 4.45  | .00  | 20.56  | 317.86  | 8.10  | 117.68 | .29  | 4.00  |
| 6804.102 | .15   | 1003.50 | 1010.50 | 2.71    | 5.14  | .00  | 20.79  | 306.47  | 8.04  | 229.47 | .35  | 4.00  |
| 6804.107 | .15   | 1003.60 | 1010.60 | 2.93    | 9.31  | .00  | 20.53  | 295.99  | 7.99  | 236.31 | .37  | 4.00  |
| 6804.102 | .19   | 1003.70 | 1010.70 | 3.18    | 9.50  | .00  | 22.96  | 730.87  | 7.90  | 253.76 | .38  | 4.00  |
| 6804.199 | .20   | 1003.80 | 1010.80 | .00     | 6.62  | .00  | 54.05  | 188.60  | .29   | 34.00  | .68  | 2.00  |
| 6804.199 | .25   | 1003.90 | 1010.90 | .00     | 9.96  | .00  | 81.12  | 222.05  | .38   | 34.00  | 1.25 | 2.00  |
| 6804.301 | .26   | 1004.00 | 1011.00 | .00     | 9.91  | .00  | 94.31  | 232.23  | .43   | 34.00  | 1.53 | 2.00  |
| 6804.199 | .03   | 1004.10 | 1011.10 | 1012.10 | 11.45 | .00  | 117.74 | 245.20  | .51   | 34.00  | 2.04 | 2.00  |
| 6804.301 | .01   | 1003.90 | 1010.90 | .00     | 5.11  | .00  | 49.53  | 193.76  | .10   | 34.00  | .64  | 4.00  |
| 6804.301 | .03   | 1003.80 | 1010.80 | .00     | 8.58  | .00  | 70.47  | 232.01  | .15   | 34.00  | 1.14 | 4.00  |
| 6804.301 | .05   | 1003.70 | 1010.70 | .00     | 9.42  | .00  | 79.74  | 244.90  | .17   | 34.00  | 1.38 | 4.00  |
| 6804.301 | .07   | 1003.60 | 1010.60 | .00     | 10.61 | .00  | 92.18  | 264.78  | .21   | 34.00  | 1.75 | 4.00  |
| 6804.398 | .04   | 1003.50 | 1010.50 | .77     | 5.77  | .43  | 58.41  | 228.95  | .54   | 89.54  | .51  | 2.00  |
| 6804.398 | .20   | 1004.50 | 1012.73 | 1.41    | 5.87  | 1.29 | 38.25  | 458.74  | .50   | 158.45 | .48  | 4.00  |
| 6804.398 | .28   | 1003.50 | 1013.43 | 1.48    | 5.76  | 1.46 | 31.79  | 582.36  | .45   | 200.45 | .44  | 4.00  |
| 6804.398 | .31   | 1003.50 | 1014.52 | 1.53    | 5.48  | 1.57 | 23.56  | 819.20  | .38   | 231.17 | .37  | 4.00  |
| 6805.000 | .02   | 1012.10 | 1021.13 | .00     | 4.82  | .00  | 44.04  | 258.72  | 10.50 | 46.26  | .36  | 4.00  |
| 6805.000 | .01   | 1012.10 | 1022.25 | 1.31    | 5.57  | .00  | 51.97  | 582.52  | 9.43  | 329.66 | .39  | 2.00  |
| 6805.000 | .00   | 1012.10 | 1022.51 | 1.47    | 5.88  | .00  | 54.87  | 659.60  | 9.06  | 349.56 | .42  | 2.00  |
| 6805.000 | .02   | 1012.10 | 1022.90 | 1.67    | 6.24  | .00  | 57.07  | 811.14  | 8.43  | 385.22 | .44  | 2.00  |
| 6806.102 | .03   | 1031.20 | 1036.82 | .40     | 4.54  | 1.17 | 66.79  | 287.35  | 15.07 | 172.20 | .27  | 2.00  |
| 6806.102 | .03   | 1031.20 | 1037.33 | .93     | 5.03  | 1.59 | 60.84  | 467.66  | 15.34 | 229.01 | .29  | 2.00  |
| 6806.102 | .04   | 1031.20 | 1038.88 | 1.07    | 5.18  | 1.72 | 58.37  | 548.80  | 15.40 | 244.41 | .29  | 2.00  |
| 6806.102 | .04   | 1032.20 | 1038.55 | 1.26    | 5.44  | 1.89 | 56.78  | 671.98  | 15.48 | 271.22 | .31  | 4.00  |
| 6806.199 | .48   | 1031.30 | 1036.00 | .00     | 8.92  | .00  | 245.31 | 90.02   | .47   | 18.62  | 1.23 | 2.00  |
| 6806.199 | 1.19  | 1031.30 | 1037.36 | .00     | 13.12 | .00  | 488.93 | 108.47  | .82   | 18.78  | 2.67 | 2.00  |
| 6806.199 | .72   | 1031.30 | 1037.74 | 1038.18 | 14.46 | .00  | 564.58 | 115.58  | 1.69  | 18.89  | 3.25 | 4.00  |
| 6806.199 | .14   | 1031.30 | 1040.02 | 1.93    | 8.92  | 2.00 | 145.31 | 493.21  | .44   | 315.56 | .86  | 4.00  |
| 6806.301 | .00   | 1031.70 | 1038.61 | .69     | 7.23  | .52  | 64.61  | 161.59  | 1.36  | 142.75 | .79  | 4.00  |
| 6806.301 | .35   | 1031.70 | 1039.77 | 1.17    | 7.97  | 1.21 | 63.98  | 412.21  | .35   | 286.58 | .76  | 4.00  |
| 6806.301 | .00   | 1031.70 | 1040.52 | 1.22    | 6.88  | 1.28 | 42.32  | 655.15  | .00   | 336.66 | .46  | 4.00  |
| 6806.301 | .00   | 1031.70 | 1040.42 | 1.54    | 8.94  | 1.63 | 72.55  | 618.89  | .00   | 348.59 | .80  | 4.00  |
| 6806.398 | .21   | 1037.20 | 1040.33 | .54     | 2.75  | .69  | 8.84   | 631.21  | .80   | 281.98 | .08  | 4.00  |
| 6806.398 | .20   | 1033.20 | 1041.40 | .66     | 3.12  | .88  | 8.38   | 941.15  | .76   | 295.59 | .10  | 4.00  |
| 6806.398 | .11   | 1033.20 | 1041.74 | .72     | 3.34  | .97  | 8.81   | 1040.65 | .75   | 299.83 | .11  | 4.00  |
| 6806.398 | .20   | 1033.20 | 1042.18 | .81     | 3.70  | 1.10 | 9.77   | 1175.87 | .89   | 305.49 | .13  | 4.00  |
| 6807.000 | .13   | 1033.70 | 1058.85 | .00     | 5.70  | .00  | 142.89 | 100.53  | 18.81 | 34.00  | .50  | 2.00  |
| 6807.000 | .17   | 1053.70 | 1059.76 | 1.24    | 6.72  | 1.03 | 142.85 | 184.72  | 18.75 | 137.45 | .66  | 2.00  |

12:05 05/06/78 0821027 9-F E717 THE MACHINE WILL NOT BE AVAILABLE FROM 5/6 25:00 TILL 5/8

| SECHD      | EGLWC | ELLLC   | ESPRS   | ELIRI | OPR   | RWEIR | CLASS  | H3     | DEFIN | CUSEL  | VEH  | EG   |
|------------|-------|---------|---------|-------|-------|-------|--------|--------|-------|--------|------|------|
| * 6807.000 | .18   | 1053.70 | 1060.05 | 1.40  | 7.06  | 1.29  | 142.15 | 231.99 | 18.73 | 169.85 | .07  | 2.00 |
| * 6807.000 | .18   | 1053.70 | 1060.47 | 1.77  | 7.49  | 1.60  | 141.13 | 305.45 | 18.71 | 191.95 | .33  | 2.00 |
| * 6808.102 | .04   | 1072.00 | 1078.10 | .00   | 4.02  | .00   | 94.27  | 70.09  | 18.06 | 29.43  | .36  | 4.00 |
| * 6808.102 | .04   | 1072.00 | 1078.10 | .00   | 5.53  | .36   | 95.38  | 192.65 | 18.19 | 41.00  | .49  | 4.00 |
| * 6808.102 | .04   | 1072.80 | 1078.56 | .00   | 5.73  | .28   | 96.76  | 194.91 | 18.31 | 50.45  | .54  | 4.00 |
| * 6808.102 | .03   | 1072.80 | 1078.12 | .38   | 6.55  | 1.26  | 99.50  | 157.44 | 18.56 | 62.18  | .66  | 4.00 |
| * 6808.199 | .21   | 1073.50 | 1078.94 | .00   | 10.60 | .00   | 541.11 | 32.01  | 2.54  | 5.99   | 1.77 | 2.00 |
| * 6808.199 | -.37  | 1073.50 | 1081.24 | 3.71  | 8.69  | 2.70  | 235.02 | 102.89 | 1.88  | 64.95  | .05  | 4.00 |
| * 6808.199 | -.40  | 1073.50 | 1081.58 | 4.07  | 8.83  | 3.06  | 228.46 | 127.37 | 1.83  | 75.56  | .80  | 4.00 |
| * 6808.199 | -.50  | 1073.50 | 1081.58 | 4.75  | 9.51  | 3.55  | 248.51 | 159.91 | 1.99  | 87.70  | .86  | 1.00 |
| * 6808.301 | .00   | 1073.90 | 1082.23 | .00   | 6.92  | .00   | 161.53 | 49.43  | 2.76  | 6.00   | .74  | 4.00 |
| * 6808.301 | .00   | 1073.90 | 1084.37 | 1.46  | 2.31  | 1.09  | 11.31  | 393.77 | 2.32  | 148.10 | .04  | 4.00 |
| * 6808.301 | .00   | 1073.90 | 1084.60 | 1.67  | 2.55  | 1.21  | 13.03  | 430.17 | 2.27  | 177.27 | .05  | 4.00 |
| * 6808.301 | .00   | 1073.90 | 1084.96 | 2.00  | 2.89  | 1.41  | 16.00  | 488.05 | 2.19  | 171.28 | .07  | 4.00 |
| * 6808.398 | .21   | 1076.30 | 1083.19 | .43   | 1.42  | .43   | 1.88   | 209.66 | .04   | 100.73 | .03  | 4.00 |
| * 6808.398 | .00   | 1076.30 | 1084.40 | .66   | 1.80  | .64   | 2.27   | 420.78 | .64   | 127.80 | .04  | 4.00 |
| * 6808.398 | .00   | 1076.30 | 1084.65 | .70   | 2.07  | .75   | 2.84   | 460.45 | .05   | 133.19 | .06  | 4.00 |
| * 6808.398 | .01   | 1076.30 | 1085.01 | .97   | 2.53  | .94   | 3.94   | 507.89 | .06   | 141.21 | .08  | 4.00 |

SHAW CREEK

SUMMARY PRINTOUT TABLE 100

| SECHD      | EGLWC   | ELLLC   | ESPRS   | ELIRI   | OPR     | RWEIR   | CLASS | H3  | DEFIN | CUSEL   | VEH   | EG      |
|------------|---------|---------|---------|---------|---------|---------|-------|-----|-------|---------|-------|---------|
| * 6801.301 | 558.36  | 956.50  | 958.74  | 958.00  | 1350.84 | 423.31  | 30.00 | .10 | 9.76  | 956.75  | 10.68 | 958.27  |
| * 6801.301 | 959.77  | 956.50  | 963.61  | 958.00  | 1449.77 | 1324.52 | 30.00 | .12 | 11.01 | 958.01  | 11.92 | 959.62  |
| * 6801.301 | 960.14  | 956.50  | 966.10  | 958.00  | 1427.02 | 1752.66 | 30.00 | .10 | 11.43 | 958.43  | 12.24 | 960.05  |
| * 6801.301 | 960.62  | 956.50  | 970.19  | 958.00  | 1427.96 | 2374.17 | 30.00 | .00 | 12.02 | 959.02  | 12.56 | 960.61  |
| * 6802.301 | 969.91  | 971.50  | .00     | 973.50  | 1790.00 | .00     | 59.00 | .00 | 8.24  | 969.84  | 9.80  | 970.53  |
| * 6802.301 | 972.50  | 971.50  | 973.26  | 973.50  | 2778.00 | .00     | 59.00 | .00 | 10.47 | 971.07  | 11.78 | 973.23  |
| * 6802.301 | 973.49  | 971.50  | 973.54  | 973.50  | 3165.20 | .18     | 30.00 | .05 | 9.33  | 969.93  | 15.20 | 974.52  |
| * 6802.301 | 974.94  | 971.50  | 975.65  | 973.50  | 3357.54 | 373.84  | 30.00 | .00 | 9.99  | 970.59  | 16.75 | 974.94  |
| * 6804.301 | 1010.78 | 1016.00 | .00     | 1018.50 | 1248.00 | .00     | 59.00 | .00 | 6.95  | 1010.25 | 6.44  | 1010.90 |
| * 6804.301 | 1012.33 | 1016.00 | .00     | 1018.50 | 1590.00 | .00     | 59.00 | .00 | 8.07  | 1011.37 | 6.58  | 1012.52 |
| * 6804.301 | 1012.92 | 1016.00 | .00     | 1018.50 | 2308.00 | .00     | 59.00 | .00 | 8.48  | 1011.76 | 9.42  | 1013.14 |
| * 6804.301 | 1013.81 | 1016.00 | .00     | 1018.50 | 3810.00 | .00     | 59.00 | .00 | 9.85  | 1012.35 | 10.61 | 1014.10 |
| * 6806.301 | 1042.60 | 1038.10 | 1041.55 | 1038.50 | 646.54  | 228.28  | 30.00 | .00 | 6.91  | 1038.61 | 7.23  | 1039.40 |
| * 6806.301 | 1047.75 | 1038.10 | 1049.95 | 1038.50 | 658.04  | 267.27  | 30.00 | .00 | 8.07  | 1039.77 | 7.97  | 1040.53 |
| * 6806.301 | 1049.84 | 1038.10 | 1055.10 | 1038.50 | 635.73  | 1035.73 | 30.00 | .00 | 8.82  | 1040.52 | 6.88  | 1041.99 |
| * 6806.301 | 1049.79 | 1038.10 | 1066.89 | 1038.50 | 340.82  | 1749.96 | 30.00 | .00 | 8.72  | 1040.42 | 8.94  | 1041.52 |
| * 6808.301 | 1081.00 | 1079.70 | 1082.97 | 1083.00 | 342.00  | .00     | 10.00 | .00 | 8.33  | 1082.23 | 6.92  | 1082.97 |
| * 6808.301 | 1084.14 | 1079.70 | 1093.40 | 1083.00 | 303.40  | 293.37  | 30.00 | .00 | 16.47 | 1084.37 | 2.34  | 1084.41 |
| * 6808.301 | 1085.50 | 1079.70 | 1099.61 | 1083.00 | 298.54  | 425.52  | 30.00 | .00 | 10.71 | 1084.60 | 2.55  | 1084.66 |
| * 6808.301 | 1088.20 | 1079.70 | 1113.69 | 1083.00 | 397.13  | 663.52  | 30.00 | .00 | 11.05 | 1084.96 | 2.89  | 1085.03 |

SHOW TABLE

SUMMARY THROUGH TABLE 100

| SECTID   | CASEID  | HI   | LOWSS | TOP4ID | OLDD    | GCH     | ORGB    |
|----------|---------|------|-------|--------|---------|---------|---------|
| 6801.101 | 954.70  | .00  | .00   | 127.54 | 53.03   | 1994.19 | 116.79  |
| 6801.102 | 956.30  | .00  | .00   | 155.06 | 108.52  | 2741.09 | 342.50  |
| 6801.103 | 956.90  | .00  | .00   | 186.98 | 249.38  | 2470.94 | 455.68  |
| 6801.104 | 957.60  | .00  | .00   | 172.72 | 330.41  | 2010.41 | 630.18  |
| 6801.199 | 956.17  | 2.11 | -.32  | 111.64 | 51.56   | 1495.12 | 227.52  |
| 6801.199 | 957.33  | 2.26 | -.33  | 144.96 | 130.89  | 1997.34 | 641.77  |
| 6801.199 | 957.85  | 2.07 | -.31  | 160.29 | 100.23  | 2119.98 | 867.78  |
| 6801.199 | 958.46  | 1.98 | -.30  | 170.26 | 260.00  | 2416.78 | 1212.72 |
| 6801.301 | 955.75  | .56  | -.56  | 111.14 | 51.00   | 1498.58 | 224.42  |
| 6801.301 | 958.01  | .56  | -.56  | 147.32 | 142.90  | 1769.75 | 660.35  |
| 6801.301 | 958.43  | .55  | -.55  | 159.52 | 186.81  | 2127.74 | 861.44  |
| 6801.301 | 959.02  | .00  | .00   | 169.72 | 257.60  | 2330.70 | 1200.70 |
| 6801.398 | 950.48  | .19  | .36   | 161.02 | 119.15  | 995.07  | 658.98  |
| 6801.398 | 959.05  | .17  | .48   | 180.26 | 235.98  | 1218.46 | 1318.58 |
| 6801.398 | 960.25  | .18  | .38   | 185.51 | 285.38  | 1309.13 | 1581.49 |
| 6801.398 | 960.78  | .18  | .36   | 192.02 | 361.78  | 1451.67 | 1975.54 |
| 6802.102 | 966.97  | 8.58 | .09   | 168.31 | 211.47  | 1515.76 | 62.78   |
| 6802.102 | 968.10  | 8.36 | .11   | 207.53 | 411.79  | 2002.32 | 363.90  |
| 6802.102 | 968.46  | 8.31 | .11   | 213.36 | 493.56  | 2159.10 | 520.34  |
| 6802.102 | 968.96  | 8.28 | .09   | 217.80 | 640.05  | 2359.63 | 757.32  |
| 6802.199 | 968.09  | 1.78 | .66   | 23.36  | .00     | 1790.00 | .00     |
| 6802.199 | 969.34  | 2.55 | 1.31  | 23.59  | .00     | 2778.00 | .00     |
| 6802.199 | 969.73  | 2.87 | 1.60  | 23.67  | .00     | 3173.00 | .00     |
| 6802.199 | 970.31  | 5.96 | -.54  | 23.78  | .00     | 3757.00 | .00     |
| 6802.301 | 968.84  | .32  | .10   | 23.50  | .00     | 1790.00 | .00     |
| 6802.301 | 971.07  | .42  | .30   | 23.92  | .00     | 2778.00 | .00     |
| 6802.301 | 969.93  | .03  | .00   | 23.70  | .00     | 3173.00 | .00     |
| 6802.301 | 970.59  | .00  | .00   | 23.83  | .00     | 3757.00 | .00     |
| 6802.398 | 970.75  | .37  | .36   | 160.18 | 287.43  | 1241.66 | 260.90  |
| 6802.398 | 973.03  | .15  | .60   | 210.02 | 730.94  | 1389.73 | 639.33  |
| 6802.398 | 974.54  | .14  | 1.03  | 221.72 | 803.67  | 1499.89 | 789.44  |
| 6802.398 | 976.19  | .10  | 1.27  | 248.79 | 1123.82 | 1584.66 | 1048.52 |
| 6804.102 | 1010.01 | 8.10 | .09   | 117.60 | 105.28  | 1141.03 | 1.68    |
| 6804.102 | 1011.15 | 8.04 | .15   | 225.47 | 310.51  | 1619.18 | 52.32   |
| 6804.102 | 1011.54 | 7.99 | .15   | 236.31 | 415.40  | 1788.65 | 102.95  |
| 6804.102 | 1012.08 | 7.90 | .19   | 251.76 | 577.68  | 2031.10 | 201.21  |

| SECRET   | PROJECT | PH    | CLASS | TOP SECRET | OR UR  | UCB     | URADIC |
|----------|---------|-------|-------|------------|--------|---------|--------|
| 8804.199 | 1010.10 | .29   |       | 34.00      | .00    | 1240.00 | .00    |
| 8804.199 | 1011.09 | .30   |       | 34.00      | .00    | 1990.00 | .00    |
| 8804.199 | 1011.35 | .43   |       | 34.00      | .00    | 2300.00 | .00    |
| 8804.199 | 1011.77 | .54   |       | 34.00      | .00    | 2010.00 | .00    |
| 8804.301 | 1010.25 | .10   | .01   | 34.09      | .00    | 1240.00 | .00    |
| 8804.301 | 1011.37 | .15   | .03   | 34.00      | .00    | 1990.00 | .00    |
| 8804.301 | 1011.76 | .17   | .05   | 34.00      | .00    | 2300.00 | .00    |
| 8804.301 | 1012.35 | .21   | .09   | 34.00      | .00    | 2010.00 | .00    |
| 8804.398 | 1010.96 | .54   | .04   | 89.54      | 7.67   | 1238.45 | 1.00   |
| 8804.398 | 1012.73 | .50   | .20   | 159.45     | 115.06 | 1778.84 | 96.10  |
| 8804.398 | 1013.43 | .45   | .20   | 200.45     | 200.85 | 1948.64 | 158.51 |
| 8804.398 | 1014.52 | .38   | .41   | 231.17     | 396.90 | 2151.16 | 261.86 |
| 8806.102 | 1035.82 | 15.07 | .03   | 172.20     | .55    | 724.16  | 147.29 |
| 8806.102 | 1037.73 | 15.34 | .03   | 225.01     | 18.48  | 1010.78 | 393.74 |
| 8806.102 | 1038.08 | 15.40 | .04   | 244.41     | 35.09  | 1121.20 | 514.71 |
| 8806.102 | 1038.55 | 15.48 | .04   | 271.22     | 70.20  | 1294.98 | 713.82 |
| 8806.199 | 1032.80 | .47   | .48   | 18.62      | .00    | 874.00  | .00    |
| 8806.199 | 1037.36 | .82   | .72   | 18.78      | .00    | 1423.00 | .00    |
| 8806.199 | 1037.74 | 1.69  | .72   | 10.89      | .00    | 1671.00 | .00    |
| 8806.199 | 1040.02 | .44   | .14   | 315.56     | 154.57 | 1416.73 | 507.70 |
| 8806.301 | 1038.61 | 1.36  | .00   | 146.75     | 6.49   | 849.40  | 10.10  |
| 8806.301 | 1039.77 | .35   | .35   | 206.58     | 76.54  | 1093.75 | 252.69 |
| 8806.301 | 1040.52 | .00   | .00   | 356.66     | 161.61 | 1031.21 | 478.18 |
| 8806.301 | 1040.42 | .00   | .00   | 348.59     | 188.09 | 1324.03 | 566.08 |
| 8806.398 | 1040.33 | .80   | .21   | 281.98     | 23.55  | 595.71  | 254.74 |
| 8806.398 | 1041.40 | .76   | .20   | 295.59     | 48.86  | 849.83  | 524.31 |
| 8806.398 | 1041.74 | .75   | .11   | 299.83     | 60.54  | 966.29  | 644.18 |
| 8806.398 | 1042.18 | .89   | .20   | 305.49     | 80.17  | 1157.13 | 841.70 |
| 8808.102 | 1077.10 | 18.06 | .04   | 29.43      | .00    | 342.00  | .00    |
| 8808.102 | 1078.18 | 18.19 | .05   | 41.02      | .00    | 593.87  | .13    |
| 8808.102 | 1078.54 | 18.31 | .04   | 56.45      | .00    | 720.39  | 2.61   |
| 8808.102 | 1079.12 | 18.56 | .02   | 67.48      | .00    | 941.92  | 17.00  |
| 8808.199 | 1078.94 | 2.54  | .71   | 5.99       | .00    | 342.00  | .00    |
| 8808.199 | 1081.24 | 1.80  | .37   | 64.95      | 147.99 | 398.39  | 47.71  |
| 8808.199 | 1061.58 | 1.83  | .40   | 75.56      | 226.86 | 423.00  | 73.14  |
| 8808.199 | 1081.98 | 1.99  | .50   | 87.70      | 363.37 | 478.48  | 117.15 |
| 8808.301 | 1082.23 | 2.26  | .00   | 6.00       | .00    | 342.00  | .00    |
| 8808.301 | 1084.37 | 2.32  | .00   | 148.10     | 339.22 | 145.42  | 109.36 |
| 8808.301 | 1084.60 | 2.27  | .00   | 157.27     | 426.79 | 162.13  | 134.08 |
| 8808.301 | 1084.96 | 2.19  | .00   | 171.28     | 589.69 | 190.14  | 179.17 |

12:14 05/06/78 0821027 9-F E74J THE MACHINE WILL NOT BE AVAILABLE FROM 5/6 25:00 TILLS/8

|          |         |     |        |        |        |       |
|----------|---------|-----|--------|--------|--------|-------|
| 6808.398 | 1083.19 | .04 | 100.73 | 18.64  | 311.71 | 11.65 |
| 6808.398 | 1084.49 | .04 | 127.89 | 60.01  | 492.95 | 41.59 |
| 6808.398 | 1084.85 | .05 | 133.19 | 79.08  | 587.95 | 55.97 |
| 6808.398 | 1085.01 | .05 | 141.21 | 113.77 | 730.01 | 64.72 |

SUMMARY OF FRAMES

|         |       |          |         |   |                                     |
|---------|-------|----------|---------|---|-------------------------------------|
| CAUTION | SECH0 | 6801.199 | PROFILE | 1 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6801.199 | PROFILE | 1 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6801.199 | PROFILE | 2 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6801.199 | PROFILE | 2 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6801.199 | PROFILE | 3 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6801.199 | PROFILE | 3 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6801.199 | PROFILE | 4 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6801.199 | PROFILE | 4 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6801.301 | PROFILE | 1 | PROBABLE MINIMUM SPECIFIC ENERGY    |
| CAUTION | SECH0 | 6801.301 | PROFILE | 1 | USEL ASSUMED BASED ON MIN DIFF      |
| CAUTION | SECH0 | 6801.301 | PROFILE | 1 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6801.301 | PROFILE | 2 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6801.301 | PROFILE | 2 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6801.301 | PROFILE | 3 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6801.301 | PROFILE | 3 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6801.301 | PROFILE | 4 | USEL ASSUMED BASED ON MIN DIFF      |
| CAUTION | SECH0 | 6801.301 | PROFILE | 4 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6801.301 | PROFILE | 4 | HYDRAULIC JUMP D.S.                 |
| CAUTION | SECH0 | 6802.199 | PROFILE | 4 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6802.199 | PROFILE | 4 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6803.199 | PROFILE | 3 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6803.199 | PROFILE | 3 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6803.199 | PROFILE | 4 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6803.199 | PROFILE | 4 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6803.301 | PROFILE | 1 | HYDRAULIC JUMP D.S.                 |
| CAUTION | SECH0 | 6803.301 | PROFILE | 2 | PROBABLE MINIMUM SPECIFIC ENERGY    |
| CAUTION | SECH0 | 6803.301 | PROFILE | 2 | USEL ASSUMED BASED ON MIN DIFF      |
| CAUTION | SECH0 | 6803.301 | PROFILE | 2 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6803.301 | PROFILE | 3 | HYDRAULIC JUMP D.S.                 |
| CAUTION | SECH0 | 6803.301 | PROFILE | 3 | HYDRAULIC JUMP D.S.                 |
| CAUTION | SECH0 | 6803.301 | PROFILE | 4 | USEL ASSUMED BASED ON MIN DIFF      |
| CAUTION | SECH0 | 6803.301 | PROFILE | 4 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6803.301 | PROFILE | 4 | HYDRAULIC JUMP D.S.                 |
| CAUTION | SECH0 | 6807.000 | PROFILE | 2 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6807.000 | PROFILE | 3 | 20 TRIALS ATTEMPTED TO BALANCE USEL |
| CAUTION | SECH0 | 6808.199 | PROFILE | 2 | CRITICAL DEPTH ASSUMED              |
| CAUTION | SECH0 | 6808.199 | PROFILE | 2 | MINIMUM SPECIFIC ENERGY             |
| CAUTION | SECH0 | 6808.199 | PROFILE | 3 | CRITICAL DEPTH ASSUMED              |

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CAUTION SECHD - 6808.199 PROFILE- 3. WITHIN SPECIFIC ENERGY  
 CAUTION SECHD - 6808.199 PROFILE- 4. CRITICAL DEPTH ASSIGNED  
 CAUTION SECHD - 6808.199 PROFILE- 4. WITHIN SPECIFIC ENERGY

FLOOD INSURANCE ZONE DATA FOR SHOH CREEK

FLOOD HAZARD FACTOR FOR FURIE REACH USING SECTIONS

| SECTION NUMBER         | CUMULATIVE DISTANCE | ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND | FIF  | PERCENT WITHIN |
|------------------------|---------------------|---|------|----------------|
|                        | 10'                 | 2'  | 0.2' |                |
| 6801.102               | 0                   | -2.20                                       | -.60 | .70            |
| 6801.199               | 98                  | -1.69                                       | -.53 | .60            |
| 6801.301               | 121                 | -1.68                                       | -.42 | .59            |
| 6801.398               | 170                 | -1.78                                       | -.41 | .51            |
| 6802.102               | 2990                | -1.49                                       | -.37 | .50            |
| 6802.199               | 3154                | -1.64                                       | -.39 | .50            |
| 6802.301               | 3175                | -1.09                                       | 1.14 | .66            |
| 6802.398               | 3250                | -3.79                                       | -.71 | 1.65           |
| 6803.000               | 4380                | -1.63                                       | -.47 | .73            |
| 6803.000               | 8830                | -1.39                                       | -.34 | .48            |
| 6804.102               | 10600               | -1.53                                       | -.39 | .54            |
| 6804.199               | 10670               | -1.28                                       | -.30 | .38            |
| 6804.301               | 10690               | -1.51                                       | -.39 | .59            |
| 6804.398               | 10790               | -2.47                                       | -.71 | 1.09           |
| 6805.000               | 12800               | -.89  | -.26 | .38            |
| 6806.102               | 15400               | -1.26                                       | -.35 | .48            |
| 6806.199               | 15430               | -.94  | .30  | 2.28           |
| 6806.301               | 15605               | -1.91                                       | -.75 | -.11           |
| 6806.398               | 16200               | -1.40                                       | -.33 | .45            |
| 6807.000               | 18580               | -1.20                                       | -.29 | .42            |
| 6808.102               | 20270               | -1.46                                       | -.38 | .56            |
| 6808.199               | 20350               | -2.65                                       | -.35 | .40            |
| 6808.301               | 20394               | -2.38                                       | -.24 | .35            |
| 6809.398               | 20494               | -1.46                                       | -.25 | .36            |
| WEIGHTED AVG FOR REACH |                     | -1.64                                       | -.41 | .62            |

FIF FOR THE REACH = 015 WITH 70.7' OF THE REACH WITHIN .5 FEET  
 ZONE FOR THE REACH = 4 3

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

| INC NO. | TOTAL LENGTH | AVG ELEVATION DATA | DIFF. | FIF | PERCENT WITHIN |
|---------|--------------|--------------------|-------|-----|----------------|
|         | 10'          | 1'                 |       |     |                |



|    |        |         |         |       |       |          |     |
|----|--------|---------|---------|-------|-------|----------|-----|
| 46 | 7820.  | 993.01  | 995.29  | -1.40 | -2.12 | 020      | 07. |
| 47 | 7990.  | 995.17  | 996.63  | -1.46 | -2.16 | 020      | 07. |
| 48 | 8160.  | 996.52  | 997.97  | -1.45 | -2.09 | 020      | 08. |
| 49 | 8330.  | 997.00  | 997.31  | -1.45 | -2.00 | 020      | 08. |
| 50 | 8500.  | 999.21  | 1000.65 | -1.41 | -2.06 | 020      | 06. |
| 51 | 8570.  | 1000.59 | 1001.99 | 1.40  | 2.05  | 020      | 06. |
|    |        |         |         |       | SEC.  | 6804.000 |     |
| 52 | 8840.  | 1001.77 | 1003.12 | 1.40  | -2.04 | 020      | 07. |
| 53 | 9010.  | 1002.58 | 1003.99 | -1.41 | 2.05  | 020      | 07. |
| 54 | 9180.  | 1003.40 | 1004.83 | -1.42 | -2.02 | 020      | 07. |
| 55 | 9350.  | 1004.21 | 1005.64 | -1.43 | -2.00 | 020      | 07. |
| 56 | 9520.  | 1005.02 | 1006.47 | -1.45 | -1.99 | 020      | 61. |
| 57 | 9690.  | 1005.83 | 1007.29 | -1.46 | -1.99 | 020      | 60. |
| 58 | 9860.  | 1006.65 | 1008.12 | -1.47 | -1.98 | 020      | 59. |
| 59 | 10030. | 1007.46 | 1008.94 | -1.48 | -1.97 | 020      | 61. |
| 60 | 10200. | 1008.27 | 1009.77 | -1.50 | -1.95 | 020      | 62. |
| 61 | 10370. | 1009.08 | 1010.60 | -1.52 | -1.95 | 020      | 59. |
| 62 | 10540. | 1009.90 | 1011.42 | -1.52 | -1.95 | 020      | 69. |
|    |        |         |         |       | SEC.  | 6804.102 |     |
|    |        |         |         |       | SEC.  | 6804.199 |     |
|    |        |         |         |       | SEC.  | 6804.301 |     |
| 63 | 10710. | 1010.70 | 1012.98 | -2.20 | -1.95 | 020      | 70. |
|    |        |         |         |       | SEC.  | 6804.390 |     |
| 64 | 10880. | 1011.65 | 1014.24 | -2.59 | -1.96 | 020      | 66. |
| 65 | 11050. | 1012.47 | 1014.72 | -2.25 | 1.96  | 020      | 62. |
| 66 | 11220. | 1013.34 | 1015.46 | -2.12 | -1.97 | 020      | 64. |
| 67 | 11390. | 1014.21 | 1016.20 | -1.99 | -1.97 | 020      | 64. |
| 68 | 11560. | 1015.08 | 1016.94 | -1.86 | -1.97 | 020      | 65. |
| 69 | 11730. | 1015.94 | 1017.57 | -1.73 | -1.96 | 020      | 68. |
| 70 | 11900. | 1016.81 | 1018.41 | -1.60 | -1.96 | 020      | 69. |
| 71 | 12070. | 1017.68 | 1019.15 | -1.47 | -1.95 | 020      | 72. |
| 72 | 12240. | 1018.54 | 1019.89 | -1.35 | -1.94 | 020      | 71. |
| 73 | 12410. | 1019.41 | 1020.63 | -1.22 | -1.93 | 020      | 73. |
| 74 | 12580. | 1020.28 | 1021.37 | -1.09 | -1.92 | 020      | 73. |
| 75 | 12750. | 1021.15 | 1022.10 | -0.95 | -1.91 | 020      | 75. |
|    |        |         |         |       | SEC.  | 6805.000 |     |
| 76 | 12920. | 1022.05 | 1022.95 | -0.90 | -1.89 | 020      | 76. |
| 77 | 13090. | 1023.00 | 1023.92 | -0.92 | -1.88 | 020      | 75. |
| 78 | 13260. | 1023.95 | 1024.89 | -0.94 | -1.87 | 020      | 74. |
| 79 | 13430. | 1024.90 | 1025.87 | -0.97 | -1.86 | 020      | 72. |
| 80 | 13600. | 1025.85 | 1026.84 | -0.99 | -1.85 | 020      | 73. |
| 81 | 13770. | 1026.80 | 1027.81 | -1.01 | -1.84 | 020      | 72. |
| 82 | 13940. | 1027.75 | 1028.78 | -1.03 | -1.83 | 020      | 71. |
| 83 | 14110. | 1028.70 | 1029.72 | -1.06 | -1.82 | 020      | 70. |
| 84 | 14280. | 1029.65 | 1030.73 | -1.08 | -1.81 | 020      | 69. |
| 85 | 14450. | 1030.60 | 1031.70 | -1.10 | -1.80 | 020      | 68. |
| 86 | 14620. | 1031.55 | 1032.67 | -1.12 | -1.79 | 020      | 67. |
| 87 | 14790. | 1032.49 | 1033.65 | -1.16 | -1.79 | 020      | 67. |
| 88 | 14960. | 1033.44 | 1034.62 | -1.18 | -1.78 | 020      | 66. |
| 89 | 15130. | 1034.39 | 1035.59 | -1.20 | -1.77 | 020      | 65. |
| 90 | 15300. | 1035.34 | 1036.57 | -1.23 | -1.77 | 020      | 64. |
| 91 | 15470. | 1036.29 | 1037.54 | -1.25 | -1.76 | 020      | 64. |
|    |        |         |         |       | SEC.  | 6806.102 |     |
|    |        |         |         |       | SEC.  | 6806.199 |     |
| 92 | 15640. | 1038.94 | 1041.20 | -2.26 | -1.77 | 020      | 64. |



|       |       |         |         |       |       |      |          |  |
|-------|-------|---------|---------|-------|-------|------|----------|--|
| 15045 |       |         |         |       |       | SEC. | 6806.301 |  |
| 93    | 15010 | 1040.28 | 1042.74 | -2.46 | -1.77 | 020  | 63       |  |
| 94    | 15020 | 1039.22 | 1041.30 | -1.58 | -1.77 | 020  | 63       |  |
| 95    | 16150 | 1040.29 | 1041.70 | -1.41 | -1.77 | 020  | 64       |  |
| 16200 |       |         |         |       |       | SEC. | 6806.398 |  |
| 96    | 16330 | 1041.35 | 1042.71 | 1.36  | -1.76 | 020  | 65       |  |
| 97    | 16470 | 1042.77 | 1044.15 | -1.38 | -1.76 | 020  | 65       |  |
| 98    | 16560 | 1043.04 | 1045.40 | -1.36 | -1.76 | 020  | 65       |  |
| 99    | 16630 | 1043.51 | 1045.86 | -1.35 | -1.75 | 020  | 65       |  |
| 100   | 17000 | 1045.28 | 1047.91 | -1.33 | -1.75 | 020  | 65       |  |
| 101   | 17170 | 1047.84 | 1049.17 | -1.37 | -1.74 | 015  | 64       |  |
| 102   | 17330 | 1049.11 | 1050.42 | -1.31 | -1.73 | 015  | 65       |  |
| 103   | 17510 | 1050.38 | 1051.68 | -1.30 | -1.73 | 015  | 66       |  |
| 104   | 17680 | 1051.65 | 1052.93 | -1.28 | -1.73 | 015  | 66       |  |
| 105   | 17850 | 1052.92 | 1054.19 | -1.27 | -1.73 | 015  | 67       |  |
| 106   | 18020 | 1054.19 | 1055.45 | -1.26 | -1.72 | 015  | 68       |  |
| 107   | 18190 | 1055.45 | 1056.70 | -1.24 | -1.72 | 015  | 68       |  |
| 108   | 18360 | 1056.73 | 1057.95 | -1.23 | -1.71 | 015  | 69       |  |
| 109   | 18530 | 1058.00 | 1059.21 | -1.21 | -1.71 | 015  | 69       |  |
| 18680 |       |         |         |       |       | SEC. | 6807.000 |  |
| 110   | 18700 | 1059.55 | 1060.77 | -1.22 | -1.70 | 015  | 70       |  |
| 111   | 18870 | 1061.45 | 1062.69 | -1.24 | -1.70 | 015  | 70       |  |
| 112   | 19040 | 1063.40 | 1064.65 | -1.26 | -1.70 | 015  | 71       |  |
| 113   | 19210 | 1065.35 | 1066.64 | -1.29 | -1.69 | 015  | 70       |  |
| 114   | 19380 | 1067.30 | 1068.62 | -1.32 | -1.69 | 015  | 70       |  |
| 115   | 19550 | 1069.25 | 1070.60 | -1.35 | -1.68 | 015  | 70       |  |
| 116   | 19720 | 1071.20 | 1072.58 | -1.38 | -1.68 | 015  | 72       |  |
| 117   | 19890 | 1073.16 | 1074.56 | -1.41 | -1.68 | 015  | 72       |  |
| 118   | 20060 | 1075.10 | 1076.54 | -1.44 | -1.68 | 015  | 72       |  |
| 119   | 20230 | 1077.05 | 1078.52 | -1.47 | -1.68 | 015  | 72       |  |
| 20370 |       |         |         |       |       | SEC. | 6808.102 |  |
| 20550 |       |         |         |       |       | SEC. | 6908.199 |  |
| 20394 |       |         |         |       |       | SEC. | 6908.301 |  |
| 120   | 20400 | 1080.74 | 1082.08 | -1.34 | -1.67 | 015  | 73       |  |
| 20494 |       |         |         |       |       | SEC. | 6808.398 |  |

THIS REACH CAN BE SUBSTITUTED BY INC NO. 10 MEET FIA REQUIREMENTS  
 INPUT 200 WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END  
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 55 120  
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR 01:02  
 MODIFICATION - 50,51,52,53  
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