

# Appendix

EE

| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10105050    | A1            | 69             | 1           | 93.75         | 1           | 10           | 1           | 100          | 2           | 0            | 2              | Y              |               |
| 10134740    | C28           | 69             | 2           | 53.01         | 1           | 9            | 1           | 82.61        | 2           | 0            | 2              | Y              | Y             |
| 10001350    | E1            | 69             | 2           | 71.52         | 1           | 8            | 1           | 85.71        | 2           | 0            | 2              | Y              |               |
| 10040930    | E1            | 69             | 2           | 70.78         | 1           | 9            | 1           | 85.71        | 1           | 100          | 2              | Y              |               |
| 10057610    | E1            | 69             | 1           | 79.67         | 1           | 9            | 2           | 72           | 1           | 100          | 2              | Y              |               |
| 10096760    | E1            | 69             | 2           | 72.27         | 1           | 8            | 1           | 81.82        | 1           | 100          | 2              | Y              |               |
| 10115710    | E1            | 69             | 2           | 68.79         | 1           | 9            | 1           | 82.61        | 2           | 0            | 2              | Y              |               |
| 10118600    | E1            | 69             | 2           | 66.27         | 1           | 9            | 1           | 81.82        | 1           | 75           | 2              | Y              |               |
| 10225690    | E1            | 69             | 2           | 64.41         | 1           | 8            | 1           | 81.82        | 2           | 0            | 2              | Y              | Y             |
| 10332050    | E1            | 69             | 2           | 67.09         | 1           | 9            | 2           | 70.83        | 1           | 100          | 2              | Y              |               |
| 10052680    | E1_2          | 69             | 2           | 68.57         | 1           | 9            | 1           | 84.38        | 1           | 100          | 2              | Y              |               |
| 10001590    | E2            | 69             | 2           | 68.51         | 1           | 9            | 1           | 80.77        | 1           | 100          | 2              | Y              |               |
| 10098700    | E2            | 69             | 1           | 75            | 1           | 9            | 1           | 77.78        | 2           | 0            | 2              | Y              |               |
| 10247110    | E2            | 69             | 1           | 81.98         | 1           | 8            | 1           | 81.82        | 2           | 25           | 2              | Y              |               |
| 10252740    | E2            | 69             | 1           | 80.56         | 1           | 9            | 2           | 68           | 1           | 100          | 2              | Y              |               |
| 10257780    | E2            | 69             | 1           | 75.89         | 1           | 8            | 2           | 73.91        | 1           | 100          | 2              | Y              |               |
| 10231520    | E3            | 69             | 2           | 72.73         | 1           | 9            | 1           | 84           | 1           | 100          | 2              | Y              |               |
| 10233050    | E3            | 69             | 2           | 70.55         | 1           | 9            | 1           | 83.87        | 2           | 0            | 2              | Y              |               |
| 10269320    | E3            | 69             | 2           | 60.81         | 1           | 9            | 1           | 82.61        | 2           | 0            | 2              | Y              | Y             |
| 10343680    | E3            | 69             | 2           | 74.07         | 1           | 8            | 1           | 85.71        | 1           | 100          | 2              | Y              |               |
| 10132170    | G5            | 69             | 1           | 76.92         | 1           | 10           | 1           | 82.86        | 2           | 0            | 2              | Y              |               |
| 10045080    | H2            | 69             | 1           | 82.86         | 1           | 9            | 1           | 84           | 2           | 0            | 2              | Y              |               |
| 10017010    | L6            | 69             | 1           | 89.69         | 1           | 10           | 1           | 87.8         | 2           | 0            | 2              | Y              |               |
| 10004520    | N1            | 69             | 2           | 74.7          | 1           | 9            | 1           | 85.19        | 1           | 100          | 2              | Y              |               |
| 10005700    | N1            | 69             | 2           | 71.71         | 1           | 9            | 1           | 81.82        | 1           | 100          | 2              | Y              |               |
| 10007850    | N1            | 69             | 2           | 69.52         | 1           | 9            | 2           | 72.73        | 1           | 100          | 2              | Y              |               |
| 10009060    | N1            | 69             | 1           | 77.44         | 1           | 9            | 2           | 72.41        | 1           | 75           | 2              | Y              |               |
| 10009640    | N1            | 69             | 2           | 73.74         | 1           | 9            | 1           | 84.38        | 1           | 100          | 2              | Y              |               |
| 10021200    | N1            | 69             | 2           | 69.44         | 1           | 9            | 1           | 81.82        | 1           | 100          | 2              | Y              |               |
| 10033470    | N1            | 69             | 2           | 71.14         | 1           | 9            | 2           | 71.43        | 1           | 100          | 2              | Y              |               |
| 10066690    | N1            | 69             | 2           | 73.15         | 1           | 9            | 1           | 76.92        | 1           | 100          | 2              | Y              |               |
| 10068230    | N1            | 69             | 1           | 75.35         | 1           | 9            | 1           | 87.1         | 2           | 0            | 2              | Y              |               |
| 10074350    | N1            | 69             | 2           | 74.83         | 1           | 9            | 2           | 72           | 1           | 100          | 2              | Y              |               |
| 10109630    | N1            | 69             | 1           | 80            | 1           | 9            | 1           | 79.17        | 2           | 0            | 2              | Y              |               |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |

| 10141490    | N1            | 69             | 2           | 70.2          | 1           | 9            | 1           | 89.19        | 1           | 75           | 2              | Y              |               |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10148500    | N1            | 69             | 2           | 71.52         | 1           | 9            | 1           | 76           | 1           | 100          | 2              | Y              |               |
| 10155260    | N1            | 69             | 2           | 67.97         | 1           | 9            | 1           | 82.61        | 1           | 100          | 2              | Y              |               |
| 10157250    | N1            | 69             | 2           | 67.42         | 1           | 9            | 1           | 84.62        | 1           | 100          | 2              | Y              |               |
| 10168180    | N1            | 69             | 2           | 72.51         | 1           | 9            | 1           | 86.21        | 1           | 100          | 2              | Y              |               |
| 10173370    | N1            | 69             | 2           | 65.95         | 1           | 8            | 1           | 85.71        | 1           | 100          | 2              | Y              |               |
| 10185240    | N1            | 69             | 1           | 79.07         | 1           | 9            | 1           | 81.82        | 2           | 50           | 2              | Y              |               |
| 10225960    | N1            | 69             | 2           | 73.97         | 1           | 9            | 1           | 81.82        | 1           | 100          | 2              | Y              |               |
| 10236650    | N1            | 69             | 1           | 80            | 1           | 8            | 2           | 66.67        | 1           | 100          | 2              | Y              |               |
| 10242060    | N1            | 69             | 2           | 72.27         | 1           | 8            | 1           | 81.82        | 1           | 100          | 2              | Y              |               |
| 10249920    | N1            | 69             | 1           | 80.14         | 1           | 9            | 1           | 78.26        | 2           | 40           | 2              | Y              |               |
| 10290840    | N1            | 69             | 2           | 73.44         | 1           | 8            | 1           | 81.82        | 1           | 100          | 2              | Y              |               |
| 10322890    | N1            | 69             | 2           | 73.43         | 1           | 9            | 1           | 84           | 1           | 100          | 2              | Y              |               |
| 10344030    | N1            | 69             | 2           | 72.34         | 1           | 9            | 1           | 81.82        | 1           | 100          | 2              | Y              |               |
| 10371510    | N1            | 69             | 2           | 72.17         | 1           | 9            | 2           | 73.91        | 1           | 100          | 2              | Y              |               |
| 10154120    | P1            | 69             | 1           | 93.18         | 1           | 9            | 2           | 59.09        | 1           | 100          | 2              | Y              | Y             |
| 10172110    | P2            | 69             | 1           | 93.44         | 1           | 9            | 1           | 90           | 2           | 0            | 2              | Y              |               |
| 10256440    | P2            | 69             | 1           | 91.84         | 1           | 9            | 2           | 45           | 1           | 100          | 2              | Y              | Y             |
| 10344360    | P2            | 69             | 1           | 95.08         | 1           | 9            | 1           | 100          | 2           | 0            | 2              | Y              |               |
| 10226790    | R12           | 69             | 1           | 93.44         | 1           | 9            | 1           | 80           | 2           | 0            | 2              | Y              |               |
| 10009110    | R2            | 69             | 1           | 95.21         | 1           | 10           | 1           | 96.43        | 2           | 0            | 2              | Y              |               |
| 10268870    | S1            | 69             | 1           | 93.62         | 1           | 10           | 1           | 100          | 2           | 0            | 2              | Y              |               |
| 10360930    | S1            | 69             | 1           | 94.29         | 1           | 9            | 2           | 73.68        | 1           | 100          | 2              | Y              |               |
| 10135190    | U6_3          | 69             | 1           | 86.11         | 1           | 9            | 2           | 43.48        | 1           | 100          | 2              | Y              | Y             |
| 10002730    |               | 67             | 1           | 84.76         | 1           | 9            | 2           | 47.83        | 1           | 75           | 2              | Y              | Y             |
| 10002820    |               | 67             | 1           | 95.48         | 1           | 10           | 2           | 63.64        | 1           | 100          | 2              | Y              | Y             |
| 10004390    |               | 67             | 1           | 94.38         | 1           | 10           | 2           | 68.18        | 1           | 100          | 2              | Y              |               |
| 10005180    |               | 67             | 1           | 91.37         | 1           | 9            | 2           | 68.18        | 1           | 100          | 2              | Y              |               |
| 10005300    |               | 67             | 1           | 87.68         | 1           | 9            | 2           | 44           | 1           | 100          | 2              | Y              | Y             |
| 10006770    |               | 67             | 1           | 96.89         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10012940    |               | 67             | 1           | 91.23         | 1           | 9            | 2           | 61.9         | 1           | 100          | 2              | Y              | Y             |
| 10013900    |               | 67             | 1           | 92.54         | 1           | 9            | 2           | 60.87        | 1           | 100          | 2              | Y              | Y             |
| 10019950    |               | 67             | 1           | 88.28         | 1           | 10           | 2           | 52.17        | 1           | 100          | 2              | Y              | Y             |
| 10029990    |               | 67             | 1           | 90.91         | 1           | 9            | 2           | 72.73        | 1           | 100          | 2              | Y              |               |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
| 10033250    |               | 67             | 1           | 92.82         | 1           | 10           | 2           | 43.48        | 1           | 100          | 2              | Y              | Y             |
| 10046400    |               | 67             | 1           | 90.43         | 1           | 10           | 2           | 59.09        | 1           | 100          | 2              | Y              | Y             |

| 10048240    |               | 67             | 1           | 90.91         | 1           | 10           | 2           | 69.57        | 1           | 100          | 2              | Y              |               |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10052580    |               | 67             | 1           | 88.24         | 1           | 9            | 2           | 60.87        | 1           | 100          | 2              | Y              | Y             |
| 10054050    |               | 67             | 1           | 94.96         | 1           | 10           | 2           | 72           | 1           | 100          | 2              | Y              |               |
| 10057430    |               | 67             | 1           | 88.82         | 1           | 10           | 2           | 60.87        | 1           | 100          | 2              | Y              | Y             |
| 10059520    |               | 67             | 1           | 92            | 1           | 9            | 2           | 72.73        | 1           | 100          | 2              | Y              |               |
| 10062580    |               | 67             | 1           | 94.65         | 1           | 10           | 2           | 72.73        | 1           | 100          | 2              | Y              |               |
| 10062860    |               | 67             | 1           | 88.7          | 1           | 9            | 2           | 54.55        | 1           | 100          | 2              | Y              | Y             |
| 10072290    |               | 67             | 1           | 90.57         | 1           | 10           | 2           | 73.91        | 1           | 100          | 2              | Y              |               |
| 10080830    |               | 67             | 1           | 90.35         | 1           | 9            | 2           | 60.87        | 1           | 100          | 2              | Y              | Y             |
| 10084370    |               | 67             | 1           | 93.37         | 1           | 10           | 2           | 59.09        | 1           | 100          | 2              | Y              | Y             |
| 10096570    |               | 67             | 1           | 97.22         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10098290    |               | 67             | 1           | 88.97         | 1           | 10           | 2           | 65.22        | 1           | 100          | 2              | Y              |               |
| 10106140    |               | 67             | 1           | 96.59         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10115200    |               | 67             | 1           | 90.91         | 1           | 10           | 2           | 63.64        | 1           | 100          | 2              | Y              | Y             |
| 10117150    |               | 67             | 1           | 91.89         | 1           | 10           | 2           | 69.57        | 1           | 100          | 2              | Y              |               |
| 10121110    |               | 67             | 1           | 95.05         | 1           | 10           | 1           | 100          | 2           | 0            | 2              | Y              |               |
| 10122960    |               | 67             | 1           | 86.42         | 1           | 10           | 2           | 52.17        | 1           | 100          | 2              | Y              | Y             |
| 10126570    |               | 67             | 1           | 87.82         | 1           | 10           | 2           | 44           | 1           | 100          | 2              | Y              | Y             |
| 10128170    |               | 67             | 1           | 83.82         | 1           | 8            | 1           | 96           | 2           | 0            | 2              | Y              |               |
| 10129030    |               | 67             | 1           | 95            | 1           | 10           | 1           | 100          | 2           | 0            | 2              | Y              |               |
| 10129430    |               | 67             | 1           | 90.65         | 1           | 10           | 2           | 54.17        | 1           | 100          | 2              | Y              | Y             |
| 10130410    |               | 67             | 1           | 90.91         | 1           | 10           | 2           | 62.5         | 1           | 100          | 2              | Y              | Y             |
| 10133490    |               | 67             | 1           | 92.14         | 1           | 10           | 2           | 60.87        | 1           | 100          | 2              | Y              | Y             |
| 10136160    |               | 67             | 1           | 94.25         | 1           | 10           | 2           | 54.17        | 1           | 100          | 2              | Y              | Y             |
| 10137280    |               | 67             | 1           | 92.81         | 1           | 10           | 2           | 70.83        | 1           | 100          | 2              | Y              |               |
| 10141510    |               | 67             | 1           | 90.68         | 1           | 10           | 1           | 86.36        | 2           | 50           | 2              | Y              |               |
| 10142490    |               | 67             | 1           | 90.71         | 1           | 10           | 2           | 65.38        | 1           | 100          | 2              | Y              |               |
| 10144520    |               | 67             | 1           | 89.8          | 1           | 10           | 2           | 62.5         | 1           | 100          | 2              | Y              | Y             |
| 10159700    |               | 67             | 1           | 92.34         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10173270    |               | 67             | 1           | 96.93         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10177950    |               | 67             | 1           | 87.61         | 1           | 9            | 2           | 56.52        | 1           | 100          | 2              | Y              | Y             |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
| 10185570    |               | 67             | 1           | 97.89         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10185580    |               | 67             | 1           | 96            | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10187820    |               | 67             | 1           | 91.27         | 1           | 9            | 2           | 56.52        | 1           | 100          | 2              | Y              | Y             |
| 10189270    |               | 67             | 1           | 92.25         | 1           | 9            | 2           | 61.54        | 1           | 100          | 2              | Y              | Y             |

| 10199550    |               | 67             | 1           | 92            | 1           | 9            | 2           | 59.09        | 1           | 100          | 2              | Y              | Y             |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10201110    |               | 67             | 1           | 95.04         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10211240    |               | 67             | 1           | 94.52         | 1           | 10           | 2           | 66.67        | 1           | 100          | 2              | Y              |               |
| 10211910    |               | 67             | 1           | 89.33         | 1           | 9            | 2           | 65.22        | 1           | 100          | 2              | Y              |               |
| 10215580    |               | 67             | 1           | 78.05         | 1           | 8            | 1           | 81.82        | 2           | 0            | 2              | Y              |               |
| 10217910    |               | 67             | 1           | 92.44         | 1           | 10           | 2           | 60.87        | 1           | 100          | 2              | Y              | Y             |
| 10220760    |               | 67             | 1           | 86.52         | 1           | 10           | 2           | 60           | 1           | 100          | 2              | Y              | Y             |
| 10230540    |               | 67             | 1           | 89.3          | 1           | 9            | 1           | 90           | 2           | 0            | 2              | Y              |               |
| 10230620    |               | 67             | 1           | 90.68         | 1           | 10           | 2           | 60.87        | 1           | 100          | 2              | Y              | Y             |
| 10231050    |               | 67             | 1           | 94.31         | 1           | 9            | 2           | 72.73        | 1           | 100          | 2              | Y              |               |
| 10237300    |               | 67             | 1           | 95.04         | 1           | 9            | 2           | 73.68        | 1           | 100          | 2              | Y              |               |
| 10243450    |               | 67             | 1           | 87.16         | 1           | 9            | 2           | 65.38        | 1           | 75           | 2              | Y              |               |
| 10246700    |               | 67             | 1           | 96.93         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10248070    |               | 67             | 1           | 90.51         | 1           | 9            | 2           | 72.73        | 1           | 100          | 2              | Y              |               |
| 10256670    |               | 67             | 1           | 88.1          | 1           | 9            | 2           | 54.55        | 1           | 100          | 2              | Y              | Y             |
| 10260230    |               | 67             | 1           | 92.59         | 1           | 9            | 2           | 69.57        | 1           | 100          | 2              | Y              |               |
| 10272770    |               | 67             | 1           | 90.57         | 1           | 10           | 2           | 50           | 1           | 100          | 2              | Y              | Y             |
| 10282320    |               | 67             | 1           | 96.35         | 1           | 9            | 1           | 100          | 2           | 60           | 2              | Y              |               |
| 10283700    |               | 67             | 1           | 90.48         | 1           | 10           | 2           | 62.5         | 1           | 100          | 2              | Y              | Y             |
| 10287040    |               | 67             | 1           | 92.08         | 1           | 9            | 2           | 68.18        | 1           | 100          | 2              | Y              |               |
| 10311260    |               | 67             | 1           | 95.48         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10319290    |               | 67             | 1           | 89.11         | 1           | 9            | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10320170    |               | 67             | 1           | 92.59         | 1           | 10           | 2           | 69.57        | 1           | 100          | 2              | Y              |               |
| 10321900    |               | 67             | 1           | 93.98         | 1           | 10           | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10330110    |               | 67             | 1           | 92.37         | 1           | 10           | 2           | 68.18        | 1           | 100          | 2              | Y              |               |
| 10331190    |               | 67             | 1           | 97.54         | 1           | 10           | 1           | 100          | 2           | 25           | 2              | Y              |               |
| 10339050    |               | 67             | 1           | 95.87         | 1           | 9            | 1           | 95           | 2           | 0            | 2              | Y              |               |
| 10363050    |               | 67             | 1           | 97.65         | 1           | 9            | 1           | 100          | 2           | 50           | 2              | Y              |               |
| 10364500    |               | 67             | 1           | 89.91         | 1           | 10           | 2           | 70.83        | 1           | 100          | 2              | Y              |               |
| 10366240    |               | 67             | 1           | 94.21         | 1           | 9            | 2           | 73.91        | 1           | 100          | 2              | Y              |               |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
| 10367160    |               | 67             | 1           | 88.46         | 1           | 9            | 2           | 47.83        | 1           | 100          | 2              | Y              | Y             |
| 10370690    |               | 67             | 1           | 90.99         | 1           | 9            | 2           | 68.18        | 1           | 100          | 2              | Y              |               |
| 10379450    |               | 67             | 1           | 92.74         | 1           | 9            | 2           | 73.91        | 1           | 100          | 2              | Y              |               |
| 10012810    | A1            | 69             | 2           | 53.13         | 1           | 9            | 1           | 81.82        | 1           | 100          | 2              | N              |               |
| 10086600    | A1            | 69             | 2           | 44.83         | 1           | 8            | 1           | 81.82        | 1           | 100          | 2              | N              |               |
| 10314790    | A1            | 69             | 2           | 74.01         | 1           | 9            | 2           | 0            | 1           | 100          | 2              | N              |               |

| 10010400    | E1            | 69             | 2           | 54.84         | 2           | 0            | 2           | 12.5         | 1           | 100          | 2              | N              |               |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10015880    | E1            | 69             | 2           | 66.67         | 1           | 8            | 2           | 43.48        | 1           | 100          | 2              | N              |               |
| 10020270    | E1            | 69             | 2           | 57.41         | 2           | 0            | 2           | 8            | 1           | 100          | 2              | N              |               |
| 10024640    | E1            | 69             | 2           | 54.29         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10025800    | E1            | 69             | 2           | 57.27         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10055110    | E1            | 69             | 2           | 52.17         | 1           | 9            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10064740    | E1            | 69             | 1           | 78.2          | 1           | 9            | 2           | 60.87        | 1           | 100          | 2              | N              |               |
| 10077400    | E1            | 69             | 2           | 51.92         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10088700    | E1            | 69             | 2           | 59            | 2           | 0            | 2           | 9.09         | 1           | 100          | 2              | N              |               |
| 10100430    | E1            | 69             | 2           | 71.17         | 1           | 8            | 2           | 18.18        | 1           | 100          | 2              | N              |               |
| 10102460    | E1            | 69             | 2           | 57.55         | 2           | 0            | 2           | 15.38        | 1           | 100          | 2              | N              |               |
| 10114350    | E1            | 69             | 2           | 51.02         | 2           | 0            | 2           | 4            | 1           | 100          | 2              | N              |               |
| 10114920    | E1            | 69             | 2           | 58.77         | 2           | 0            | 2           | 7.69         | 1           | 100          | 2              | N              |               |
| 10116260    | E1            | 69             | 2           | 54.37         | 1           | 8            | 1           | 75           | 2           | 0            | 2              | N              |               |
| 10120390    | E1            | 69             | 2           | 57.66         | 2           | 0            | 2           | 7.69         | 1           | 100          | 2              | N              |               |
| 10135670    | E1            | 69             | 2           | 57.41         | 2           | 0            | 2           | 11.54        | 1           | 100          | 2              | N              |               |
| 10146380    | E1            | 69             | 2           | 74.38         | 1           | 9            | 2           | 56.52        | 1           | 100          | 2              | N              |               |
| 10153150    | E1            | 69             | 2           | 59.57         | 1           | 8            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10223840    | E1            | 69             | 2           | 62.5          | 1           | 9            | 1           | 82.61        | 1           | 100          | 2              | N              |               |
| 10242880    | E1            | 69             | 2           | 61.34         | 2           | 0            | 2           | 15.38        | 1           | 100          | 2              | N              |               |
| 10261200    | E1            | 69             | 2           | 53.76         | 2           | 0            | 2           | 12.5         | 1           | 100          | 2              | N              |               |
| 10279250    | E1            | 69             | 2           | 64.24         | 1           | 8            | 1           | 81.82        | 1           | 75           | 2              | N              |               |
| 10281760    | E1            | 69             | 2           | 65.87         | 1           | 9            | 2           | 12           | 1           | 100          | 2              | N              |               |
| 10360410    | E1            | 69             | 2           | 46.32         | 2           | 0            | 2           | 8.7          | 1           | 100          | 2              | N              |               |
| 10368480    | E1            | 69             | 2           | 53            | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10369560    | E1            | 69             | 2           | 51.43         | 2           | 0            | 2           | 12           | 1           | 100          | 2              | N              |               |
| 10384860    | E1            | 69             | 2           | 51.89         | 2           | 0            | 2           | 12           | 1           | 100          | 2              | N              |               |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
| 10095700    | E1_2          | 69             | 2           | 48.91         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10376070    | E1_2          | 69             | 2           | 58            | 2           | 0            | 2           | 12.5         | 1           | 100          | 2              | N              |               |
| 10132640    | E2            | 69             | 2           | 60.59         | 1           | 9            | 2           | 54.17        | 1           | 100          | 2              | N              |               |
| 10270780    | E2            | 69             | 2           | 60.73         | 1           | 8            | 1           | 81.82        | 1           | 100          | 2              | N              |               |
| 10301070    | E2            | 69             | 2           | 50.44         | 2           | 1            | 2           | 4.17         | 1           | 100          | 2              | N              |               |
| 10128690    | E3            | 69             | 2           | 57.46         | 2           | 1            | 2           | 11.54        | 1           | 100          | 2              | N              |               |
| 10142530    | E3            | 69             | 2           | 55.46         | 2           | 1            | 2           | 16           | 1           | 100          | 2              | N              |               |
| 10238620    | E3            | 69             | 2           | 47.41         | 2           | 1            | 2           | 0            | 1           | 75           | 2              | N              |               |
| 10265290    | E3            | 69             | 2           | 52.03         | 2           | 1            | 2           | 3.85         | 1           | 100          | 2              | N              |               |

| 10344830    | E5            | 69             | 2           | 48.08         | 2           | 2            | 2           | 4.17         | 1           | 100          | 2              | N              |               |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10013660    | F7            | 69             | 2           | 54.86         | 2           | 2            | 2           | 4            | 1           | 100          | 2              | N              |               |
| 10006820    | H2            | 69             | 1           | 77.03         | 1           | 10           | 2           | 4            | 1           | 100          | 2              | N              |               |
| 10092440    | H2            | 69             | 2           | 71.95         | 1           | 10           | 2           | 0            | 2           | 0            | 2              | N              |               |
| 10369470    | L1            | 69             | 1           | 81.29         | 1           | 9            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10334870    | MRL10         | 69             | 2           | 62.92         | 1           | 9            | 2           | 43.48        | 1           | 100          | 2              | N              |               |
| 10014320    | N1            | 69             | 2           | 52.94         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10030900    | N1            | 69             | 2           | 65.38         | 1           | 9            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10037110    | N1            | 69             | 2           | 67.26         | 1           | 8            | 2           | 12.5         | 1           | 100          | 2              | N              |               |
| 10063820    | N1            | 69             | 2           | 54.17         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10066590    | N1            | 69             | 2           | 53.33         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10071770    | N1            | 69             | 2           | 70.23         | 1           | 9            | 2           | 12           | 1           | 100          | 2              | N              |               |
| 10075670    | N1            | 69             | 2           | 50.5          | 2           | 0            | 2           | 4.17         | 1           | 100          | 2              | N              |               |
| 10085180    | N1            | 69             | 2           | 62.8          | 1           | 9            | 2           | 72           | 2           | 0            | 2              | N              |               |
| 10091360    | N1            | 69             | 2           | 47.71         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10093660    | N1            | 69             | 2           | 50            | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10094100    | N1            | 69             | 2           | 49.14         | 2           | 0            | 2           | 0            | 2           | 50           | 2              | N              |               |
| 10100460    | N1            | 69             | 2           | 52.29         | 2           | 0            | 2           | 15.38        | 1           | 100          | 2              | N              |               |
| 10103640    | N1            | 69             | 2           | 53.78         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10106560    | N1            | 69             | 2           | 56.88         | 2           | 0            | 2           | 4            | 1           | 100          | 2              | N              |               |
| 10113240    | N1            | 69             | 2           | 49.09         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10114200    | N1            | 69             | 2           | 60            | 2           | 0            | 2           | 12           | 1           | 100          | 2              | N              |               |
| 10115210    | N1            | 69             | 2           | 63.95         | 1           | 9            | 2           | 64.52        | 1           | 100          | 2              | N              |               |
| 10117480    | N1            | 69             | 2           | 58.65         | 1           | 7            | 1           | 85.71        | 1           | 75           | 2              | N              |               |
| 10129800    | N1            | 69             | 2           | 52.94         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
| 10132220    | N1            | 69             | 2           | 47.12         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10138430    | N1            | 69             | 2           | 64.43         | 2           | 2            | 2           | 72.22        | 1           | 100          | 2              | N              |               |
| 10145660    | N1            | 69             | 2           | 51            | 2           | 0            | 2           | 8.33         | 1           | 100          | 2              | N              |               |
| 10147240    | N1            | 69             | 2           | 62.13         | 1           | 9            | 1           | 81.82        | 1           | 100          | 2              | N              |               |
| 10160070    | N1            | 69             | 2           | 60.34         | 2           | 0            | 2           | 8            | 1           | 100          | 2              | N              |               |
| 10191220    | N1            | 69             | 2           | 43.43         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10192760    | N1            | 69             | 2           | 64.35         | 1           | 8            | 2           | 21.74        | 1           | 100          | 2              | N              |               |
| 10205020    | N1            | 69             | 2           | 56.52         | 2           | 0            | 2           | 16           | 1           | 100          | 2              | N              |               |
| 10208510    | N1            | 69             | 2           | 65.91         | 1           | 9            | 2           | 36           | 1           | 100          | 2              | N              |               |
| 10209340    | N1            | 69             | 2           | 51.85         | 2           | 0            | 2           | 8            | 1           | 100          | 2              | N              |               |
| 10219520    | N1            | 69             | 2           | 61.65         | 1           | 9            | 1           | 89.19        | 1           | 100          | 2              | N              |               |

| 10224250    | N1            | 69             | 2           | 54.7          | 2           | 0            | 2           | 11.54        | 1           | 100          | 2              | N              |               |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10234410    | N1            | 69             | 2           | 47.66         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10250610    | N1            | 69             | 2           | 74.44         | 1           | 9            | 2           | 46.15        | 1           | 100          | 2              | N              |               |
| 10254430    | N1            | 69             | 2           | 50            | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10280230    | N1            | 69             | 2           | 46.15         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10295190    | N1            | 69             | 2           | 50.49         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10302680    | N1            | 69             | 2           | 68.48         | 1           | 8            | 2           | 12.5         | 1           | 100          | 2              | N              |               |
| 10307330    | N1            | 69             | 2           | 52.38         | 1           | 8            | 2           | 0            | 2           | 0            | 2              | N              |               |
| 10311000    | N1            | 69             | 2           | 65.35         | 1           | 8            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10329290    | N1            | 69             | 2           | 68.85         | 1           | 8            | 2           | 54.17        | 1           | 100          | 2              | N              |               |
| 10335750    | N1            | 69             | 2           | 57.14         | 2           | 0            | 2           | 16           | 1           | 100          | 2              | N              |               |
| 10351470    | N1            | 69             | 2           | 69.13         | 1           | 9            | 2           | 55.17        | 1           | 100          | 2              | N              |               |
| 10351990    | N1            | 69             | 2           | 48.62         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10358890    | N1            | 69             | 2           | 50.5          | 2           | 0            | 2           | 8.33         | 1           | 100          | 2              | N              |               |
| 10359480    | N1            | 69             | 2           | 48.96         | 2           | 0            | 2           | 3.85         | 1           | 75           | 2              | N              |               |
| 10368150    | N1            | 69             | 2           | 67.8          | 1           | 9            | 2           | 8            | 1           | 100          | 2              | N              |               |
| 10375490    | N1            | 69             | 2           | 48.6          | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10384980    | N1            | 69             | 2           | 51.33         | 2           | 0            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10195880    | P1            | 69             | 1           | 76.98         | 1           | 10           | 2           | 15.38        | 1           | 100          | 2              | N              |               |
| 10256980    | P1            | 69             | 1           | 85.61         | 1           | 9            | 2           | 34.78        | 1           | 100          | 2              | N              |               |
| 10260510    | P1            | 69             | 1           | 85.42         | 1           | 9            | 2           | 4.76         | 1           | 100          | 2              | N              |               |
| 10265940    | P1            | 69             | 1           | 76.34         | 1           | 9            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10267000    | P1            | 69             | 1           | 88.33         | 1           | 10           | 2           | 5            | 1           | 100          | 2              | N              |               |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
| 10281460    | P1            | 69             | 2           | 72.48         | 1           | 9            | 2           | 0            | 2           | 0            | 2              | N              |               |
| 10310880    | P1            | 69             | 2           | 51.64         | 2           | 1            | 2           | 7.69         | 1           | 100          | 2              | N              |               |
| 10366560    | P1            | 69             | 1           | 75.61         | 1           | 9            | 2           | 0            | 1           | 100          | 2              | N              |               |
| 10386840    | P1            | 69             | 1           | 83.33         | 1           | 10           | 2           | 15.38        | 1           | 100          | 2              | N              |               |
| 10011640    | P2            | 69             | 1           | 81.11         | 1           | 9            | 2           | 23.81        | 1           | 100          | 2              | N              |               |
| 10016030    | P2            | 69             | 1           | 88.11         | 1           | 10           | 2           | 4.35         | 1           | 100          | 2              | N              |               |
| 10037900    | P2            | 69             | 1           | 83.04         | 1           | 9            | 2           | 14.29        | 1           | 100          | 2              | N              |               |
| 10057500    | P2            | 69             | 1           | 89            | 1           | 10           | 2           | 18.18        | 1           | 100          | 2              | N              |               |
| 10057510    | P2            | 69             | 1           | 84.17         | 1           | 9            | 2           | 22.73        | 1           | 100          | 2              | N              |               |
| 10061770    | P2            | 69             | 1           | 84.25         | 1           | 10           | 2           | 8.7          | 1           | 100          | 2              | N              |               |
| 10085480    | P2            | 69             | 1           | 83.93         | 1           | 9            | 2           | 22.73        | 1           | 100          | 2              | N              |               |
| 10120370    | P2            | 69             | 1           | 86.56         | 1           | 10           | 2           | 4.35         | 1           | 100          | 2              | N              |               |
| 10122320    | P2            | 69             | 1           | 82.17         | 1           | 10           | 2           | 13.64        | 1           | 100          | 2              | N              |               |



| 10155780    | P2            | 69             | 1           | 87.84         | 1           | 10           | 2           | 21.74        | 1           | 100          | 2              | N              |               |
|-------------|---------------|----------------|-------------|---------------|-------------|--------------|-------------|--------------|-------------|--------------|----------------|----------------|---------------|
| 10177300    | P2            | 69             | 2           | 54.21         | 2           | 0            | 2           | 4            | 1           | 100          | 2              | N              |               |
| 10178200    | P2            | 69             | 1           | 86            | 1           | 9            | 2           | 19.05        | 1           | 100          | 2              | N              |               |
| 10239770    | P2            | 69             | 1           | 87.02         | 1           | 9            | 2           | 19.05        | 1           | 100          | 2              | N              |               |
| 10283830    | P2            | 69             | 1           | 85.8          | 1           | 10           | 2           | 4.35         | 1           | 100          | 2              | N              |               |
| 10289550    | P2            | 69             | 1           | 83.22         | 1           | 10           | 2           | 4            | 1           | 100          | 2              | N              |               |
| 10289860    | P2            | 69             | 1           | 85.71         | 1           | 10           | 2           | 13.64        | 1           | 100          | 2              | N              |               |
| 10292930    | P2            | 69             | 1           | 82.76         | 1           | 9            | 2           | 9.52         | 1           | 100          | 2              | N              |               |
| 10357940    | P2            | 69             | 1           | 87.6          | 1           | 10           | 2           | 33.33        | 1           | 100          | 2              | N              |               |
| 10361800    | P2            | 69             | 1           | 79.46         | 1           | 10           | 2           | 4.55         | 1           | 100          | 2              | N              |               |
| 10364340    | P2            | 69             | 1           | 81.73         | 1           | 9            | 2           | 9.52         | 1           | 100          | 2              | N              |               |
| 10375250    | P2            | 69             | 1           | 81.25         | 1           | 9            | 2           | 35           | 2           | 0            | 2              | N              |               |
| 10167280    | P2_3          | 69             | 1           | 76.72         | 1           | 10           | 2           | 4.55         | 1           | 100          | 2              | N              |               |
| 10118950    | P3            | 69             | 1           | 80.87         | 1           | 9            | 2           | 19.05        | 1           | 100          | 2              | N              |               |
| 10319520    | P3            | 69             | 1           | 87.78         | 1           | 10           | 2           | 8.7          | 1           | 100          | 2              | N              |               |
| 10013340    | P4            | 69             | 1           | 77.7          | 1           | 9            | 2           | 4.76         | 1           | 75           | 2              | N              |               |
| 10084870    | P5            | 69             | 1           | 87.12         | 1           | 10           | 2           | 19.05        | 1           | 100          | 2              | N              |               |
| 10344470    | P6            | 69             | 1           | 86.61         | 1           | 9            | 2           | 33.33        | 1           | 100          | 2              | N              |               |
| 10314190    | R1            | 69             | 1           | 86.09         | 1           | 9            | 2           | 23.81        | 1           | 100          | 2              | N              |               |
| 10291130    | R2            | 69             | 1           | 89.02         | 1           | 10           | 2           | 23.81        | 1           | 100          | 2              | N              |               |
| 10299630    | R2_3          | 69             | 1           | 75.59         | 1           | 10           | 2           | 8.7          | 1           | 100          | 2              | N              |               |
| <u>SUID</u> | <u>BREAKQ</u> | <u>OUTCOME</u> | <u>CMP1</u> | <u>COMP%1</u> | <u>CMP2</u> | <u>CMP%2</u> | <u>CMP3</u> | <u>CMP%3</u> | <u>CMP4</u> | <u>CMP%4</u> | <u>COMPALL</u> | <u>BUBBLE?</u> | <u>SWITCH</u> |
| 10215330    | R4            | 69             | 1           | 91.08         | 1           | 10           | 2           | 40           | 1           | 100          | 2              | N              |               |
| 10014030    |               | 67             | 1           | 82.22         | 1           | 10           | 2           | 39.13        | 1           | 100          | 2              | N              |               |
| 10030750    |               | 67             | 2           | 74.65         | 1           | 10           | 2           | 29.17        | 1           | 100          | 2              | N              |               |
| 10070060    |               | 67             | 2           | 54.69         | 2           | 4            | 2           | 11.54        | 2           | 0            | 2              | N              |               |
| 10073170    |               | 67             | 1           | 75.25         | 1           | 8            | 2           | 18.18        | 1           | 100          | 2              | N              |               |
| 10095950    |               | 67             | 1           | 81.7          | 1           | 9            | 2           | 29.17        | 1           | 75           | 2              | N              |               |
| 10136510    |               | 67             | 1           | 87.58         | 1           | 10           | 2           | 39.29        | 1           | 100          | 2              | N              |               |
| 10138070    |               | 67             | 1           | 90.25         | 1           | 10           | 2           | 50           | 1           | 100          | 2              | N              |               |
| 10201640    |               | 67             | 1           | 84.8          | 1           | 10           | 2           | 37.5         | 1           | 100          | 2              | N              |               |
| 10203610    |               | 67             | 1           | 83.21         | 1           | 10           | 2           | 25           | 1           | 100          | 2              | N              |               |
| 10210800    |               | 67             | 2           | 74.6          | 1           | 9            | 2           | 29.17        | 1           | 100          | 2              | N              |               |
| 10231370    |               | 67             | 2           | 61.05         | 2           | 1            | 2           | 8.7          | 2           | 0            | 2              | N              |               |
| 10231490    |               | 67             | 2           | 52.63         | 2           | 0            | 2           | 20           | 2           | 0            | 2              | N              |               |
| 10231570    |               | 67             | 1           | 86.83         | 1           | 10           | 2           | 39.13        | 1           | 100          | 2              | N              |               |
| 10238820    |               | 67             | 1           | 89.16         | 1           | 10           | 2           | 48           | 1           | 100          | 2              | N              |               |

|  |  |    |   |       |   |    |   |       |   |     |   |   |  |
|--|--|----|---|-------|---|----|---|-------|---|-----|---|---|--|
| 10267130   |  | 67 | 1 | 86.84 | 1 | 9  | 2 | 59.09 | 1 | 100 | 2 | N |  |
| 10304380   |  | 67 | 1 | 80.6  | 1 | 9  | 2 | 22.73 | 2 | 0   | 2 | N |  |
| 10312420   |  | 67 | 1 | 88.57 | 1 | 10 | 2 | 29.17 | 1 | 100 | 2 | N |  |
| 10340850   |  | 67 | 1 | 85.92 | 1 | 9  | 2 | 34.78 | 1 | 100 | 2 | N |  |
| 10360040   |  | 67 | 1 | 80.53 | 1 | 10 | 2 | 20.83 | 1 | 100 | 2 | N |  |
| 10373800   |  | 67 | 1 | 77.95 | 1 | 10 | 2 | 20.83 | 1 | 100 | 2 | N |  |
| <b>Total: N = 291. Breakoffs = 191 (66%), Non-breakoffs = 100 (34%)</b>      |  |    |   |       |   |    |   |       |   |     |   |   |  |
| <b>Fail: N = 153 (53%). Breakoffs = 133 (87%), Non-breakoffs = 20 (13%)</b>  |  |    |   |       |   |    |   |       |   |     |   |   |  |
| <b>Bubble: N = 138 (47%). Breakoffs = 58 (42%), Non-breakoffs = 80 (58%)</b> |  |    |   |       |   |    |   |       |   |     |   |   |  |