

**Energy Deviation Account Statement for the period 06/01/2020 to 12/01/2020**

| <b>PSSName</b> | <b>Date</b>         | <b>Block No</b> | <b>Avc (kWh)</b> | <b>Schedule (kWh)</b> | <b>Actual (kWh)</b> | <b>Deviation (kWh)</b> | <b>% Deviation(% Absolute error)</b> | <b>Deviation Charges PSS (Rs.)</b> | <b>Periphery Rate (Rs.)</b> | <b>Deviation charges Periphery (Rs.)</b> |
|----------------|---------------------|-----------------|------------------|-----------------------|---------------------|------------------------|--------------------------------------|------------------------------------|-----------------------------|------------------------------------------|
| Katol 132kV    | 06/01/2020 00:00:00 | 1               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 2.903                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 00:15:00 | 2               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 0.000                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 00:30:00 | 3               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 0.000                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 00:45:00 | 4               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | -0.984                      | 0.000000                                 |
| Katol 132kV    | 06/01/2020 01:00:00 | 5               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | -3.541                      | 0.000000                                 |
| Katol 132kV    | 06/01/2020 01:15:00 | 6               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 3.222                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 01:30:00 | 7               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 3.541                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 01:45:00 | 8               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 2.352                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 02:00:00 | 9               | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 1.747                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 02:15:00 | 10              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 0.581                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 02:30:00 | 11              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | -2.323                      | 0.000000                                 |
| Katol 132kV    | 06/01/2020 02:45:00 | 12              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 2.323                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 03:00:00 | 13              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 2.323                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 03:15:00 | 14              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | -1.742                      | 0.000000                                 |
| Katol 132kV    | 06/01/2020 03:30:00 | 15              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 3.222                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 03:45:00 | 16              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 3.541                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 04:00:00 | 17              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 4.496                       | 0.000000                                 |
| Katol 132kV    | 06/01/2020 04:15:00 | 18              | 11000.0          | 0.0                   | 0.0                 | 0.0                    | 0.0                                  | 0.00                               | 3.222                       | 0.000000                                 |

|             |                        |    |         |         |         |         |       |      |        |             |
|-------------|------------------------|----|---------|---------|---------|---------|-------|------|--------|-------------|
| Katol 132kV | 06/01/2020<br>04:30:00 | 19 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 3.859  | 0.000000    |
| Katol 132kV | 06/01/2020<br>04:45:00 | 20 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 4.815  | 0.000000    |
| Katol 132kV | 06/01/2020<br>05:00:00 | 21 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 3.859  | 0.000000    |
| Katol 132kV | 06/01/2020<br>05:15:00 | 22 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 6.407  | 0.000000    |
| Katol 132kV | 06/01/2020<br>05:30:00 | 23 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 6.496  | 0.000000    |
| Katol 132kV | 06/01/2020<br>05:45:00 | 24 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 7.492  | 0.000000    |
| Katol 132kV | 06/01/2020<br>06:00:00 | 25 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | -5.452 | 0.000000    |
| Katol 132kV | 06/01/2020<br>06:15:00 | 26 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | -6.089 | 0.000000    |
| Katol 132kV | 06/01/2020<br>06:30:00 | 27 | 11000.0 | 0.0     | 3.9     | 3.9     | 0.04  | 0.00 | -7.044 | 0.000000    |
| Katol 132kV | 06/01/2020<br>06:45:00 | 28 | 11000.0 | 0.0     | 75.0    | 75.0    | 0.68  | 0.00 | 7.682  | 0.000000    |
| Katol 132kV | 06/01/2020<br>07:00:00 | 29 | 11000.0 | 354.89  | 302.0   | -52.89  | 0.48  | 0.00 | -3.859 | 0.000000    |
| Katol 132kV | 06/01/2020<br>07:15:00 | 30 | 11000.0 | 731.37  | 745.15  | 13.78   | 0.13  | 0.00 | 4.815  | 0.000000    |
| Katol 132kV | 06/01/2020<br>07:30:00 | 31 | 11000.0 | 1124.63 | 1322.05 | 197.42  | 1.79  | 0.00 | 4.178  | 0.000000    |
| Katol 132kV | 06/01/2020<br>07:45:00 | 32 | 11000.0 | 1659.37 | 1982.7  | 323.33  | 2.94  | 0.00 | -3.540 | -143.033445 |
| Katol 132kV | 06/01/2020<br>08:00:00 | 33 | 11000.0 | 2448.29 | 2964.0  | 515.71  | 4.69  | 0.00 | -3.859 | -135.799469 |
| Katol 132kV | 06/01/2020<br>08:15:00 | 34 | 11000.0 | 3589.71 | 4672.1  | 1082.39 | 9.84  | 0.00 | -5.452 | -92.999490  |
| Katol 132kV | 06/01/2020<br>08:30:00 | 35 | 11000.0 | 4433.79 | 6015.35 | 1581.56 | 14.38 | 0.00 | 4.178  | 0.000000    |
| Katol 132kV | 06/01/2020<br>08:45:00 | 36 | 11000.0 | 5514.75 | 7091.3  | 1576.55 | 14.33 | 0.00 | -3.859 | -159.742562 |
| Katol 132kV | 06/01/2020<br>09:00:00 | 37 | 11000.0 | 6234.75 | 7789.8  | 1555.05 | 14.14 | 0.00 | -6.407 | -487.270408 |
| Katol 132kV | 06/01/2020<br>09:15:00 | 38 | 11000.0 | 6912.0  | 8526.55 | 1614.55 | 14.68 | 0.00 | -8.000 | -256.704776 |
| Katol 132kV | 06/01/2020<br>09:30:00 | 39 | 11000.0 | 7499.25 | 9149.8  | 1650.55 | 15.0  | 0.00 | -5.770 | -113.609869 |

|             |                        |    |         |          |          |         |       |      |        |             |
|-------------|------------------------|----|---------|----------|----------|---------|-------|------|--------|-------------|
| Katol 132kV | 06/01/2020<br>09:45:00 | 40 | 11000.0 | 8104.5   | 9689.05  | 1584.55 | 14.4  | 0.00 | 3.222  | 0.000000    |
| Katol 132kV | 06/01/2020<br>10:00:00 | 41 | 11000.0 | 8525.25  | 10149.25 | 1624.0  | 14.76 | 0.00 | -2.903 | -221.590468 |
| Katol 132kV | 06/01/2020<br>10:15:00 | 42 | 11000.0 | 9462.0   | 10523.75 | 1061.75 | 9.65  | 0.00 | -3.222 | -29.858210  |
| Katol 132kV | 06/01/2020<br>10:30:00 | 43 | 11000.0 | 9834.88  | 10870.2  | 1035.32 | 9.41  | 0.00 | 4.815  | 0.000000    |
| Katol 132kV | 06/01/2020<br>10:45:00 | 44 | 11000.0 | 10055.75 | 11133.0  | 1077.25 | 9.79  | 0.00 | 4.496  | 0.000000    |
| Katol 132kV | 06/01/2020<br>11:00:00 | 45 | 11000.0 | 10143.63 | 11276.75 | 1133.12 | 10.3  | 0.00 | 16.000 | 0.000000    |
| Katol 132kV | 06/01/2020<br>11:15:00 | 46 | 11000.0 | 10150.75 | 11347.55 | 1196.8  | 10.88 | 0.00 | 5.133  | 0.000000    |
| Katol 132kV | 06/01/2020<br>11:30:00 | 47 | 11000.0 | 10153.12 | 11373.55 | 1220.43 | 11.09 | 0.00 | 1.182  | 0.000000    |
| Katol 132kV | 06/01/2020<br>11:45:00 | 48 | 11000.0 | 10138.88 | 11369.0  | 1230.12 | 11.18 | 0.00 | 6.308  | 0.000000    |
| Katol 132kV | 06/01/2020<br>12:00:00 | 49 | 11000.0 | 10157.88 | 11369.4  | 1211.52 | 11.01 | 0.00 | 6.598  | 0.000000    |
| Katol 132kV | 06/01/2020<br>12:15:00 | 50 | 11000.0 | 10134.12 | 11254.05 | 1119.93 | 10.18 | 0.00 | 5.431  | 0.000000    |
| Katol 132kV | 06/01/2020<br>12:30:00 | 51 | 11000.0 | 10155.5  | 11340.9  | 1185.4  | 10.78 | 0.00 | 3.540  | 0.000000    |
| Katol 132kV | 06/01/2020<br>12:45:00 | 52 | 11000.0 | 10148.37 | 11196.5  | 1048.13 | 9.53  | 0.00 | -2.903 | -16.819504  |
| Katol 132kV | 06/01/2020<br>13:00:00 | 53 | 11000.0 | 10115.12 | 11180.4  | 1065.28 | 9.68  | 0.00 | -1.161 | -35.247862  |
| Katol 132kV | 06/01/2020<br>13:15:00 | 54 | 11000.0 | 10089.0  | 11033.2  | 944.2   | 8.58  | 0.00 | 3.859  | 0.000000    |
| Katol 132kV | 06/01/2020<br>13:30:00 | 55 | 11000.0 | 9680.5   | 10751.35 | 1070.85 | 9.73  | 0.00 | -6.407 | -24.708637  |
| Katol 132kV | 06/01/2020<br>13:45:00 | 56 | 11000.0 | 9538.0   | 10425.15 | 887.15  | 8.06  | 0.00 | 5.452  | 0.000000    |
| Katol 132kV | 06/01/2020<br>14:00:00 | 57 | 11000.0 | 9326.62  | 10070.75 | 744.13  | 6.76  | 0.00 | 5.452  | 0.000000    |
| Katol 132kV | 06/01/2020<br>14:15:00 | 58 | 11000.0 | 8982.25  | 9660.35  | 678.1   | 6.16  | 0.00 | 16.000 | 0.000000    |
| Katol 132kV | 06/01/2020<br>14:30:00 | 59 | 11000.0 | 8478.75  | 9144.45  | 665.7   | 6.05  | 0.00 | 6.035  | 0.000000    |
| Katol 132kV | 06/01/2020<br>14:45:00 | 60 | 11000.0 | 8072.63  | 8618.65  | 546.02  | 4.96  | 0.00 | 3.949  | 0.000000    |

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|-------------|------------------------|----|---------|---------|---------|--------|------|------|--------|-------------|
| Katol 132kV | 06/01/2020<br>15:00:00 | 61 | 11000.0 | 7505.0  | 8079.9  | 574.9  | 5.23 | 0.00 | 3.367  | 0.000000    |
| Katol 132kV | 06/01/2020<br>15:15:00 | 62 | 11000.0 | 6828.12 | 7398.45 | 570.33 | 5.18 | 0.00 | 3.904  | 0.000000    |
| Katol 132kV | 06/01/2020<br>15:30:00 | 63 | 11000.0 | 6246.25 | 6653.45 | 407.2  | 3.7  | 0.00 | 4.482  | 0.000000    |
| Katol 132kV | 06/01/2020<br>15:45:00 | 64 | 11000.0 | 5369.87 | 5900.85 | 530.98 | 4.83 | 0.00 | 4.225  | 0.000000    |
| Katol 132kV | 06/01/2020<br>16:00:00 | 65 | 11000.0 | 4343.87 | 4934.25 | 590.38 | 5.37 | 0.00 | 2.895  | 0.000000    |
| Katol 132kV | 06/01/2020<br>16:15:00 | 66 | 11000.0 | 3355.88 | 3764.2  | 408.32 | 3.71 | 0.00 | 6.089  | 0.000000    |
| Katol 132kV | 06/01/2020<br>16:30:00 | 67 | 11000.0 | 1819.25 | 2546.85 | 727.6  | 6.61 | 0.00 | -8.000 | -771.637675 |
| Katol 132kV | 06/01/2020<br>16:45:00 | 68 | 11000.0 | 1125.75 | 1448.0  | 322.25 | 2.93 | 0.00 | -4.178 | 0.000000    |
| Katol 132kV | 06/01/2020<br>17:00:00 | 69 | 11000.0 | 669.75  | 779.3   | 109.55 | 1.0  | 0.00 | 1.742  | 0.000000    |
| Katol 132kV | 06/01/2020<br>17:15:00 | 70 | 11000.0 | 232.75  | 349.0   | 116.25 | 1.06 | 0.00 | 2.903  | 0.000000    |
| Katol 132kV | 06/01/2020<br>17:30:00 | 71 | 11000.0 | 35.62   | 97.45   | 61.83  | 0.56 | 0.00 | -4.178 | 0.000000    |
| Katol 132kV | 06/01/2020<br>17:45:00 | 72 | 11000.0 | 0.0     | 9.15    | 9.15   | 0.08 | 0.00 | -2.323 | 0.000000    |
| Katol 132kV | 06/01/2020<br>18:00:00 | 73 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -2.903 | 0.000000    |
| Katol 132kV | 06/01/2020<br>18:15:00 | 74 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 1.161  | 0.000000    |
| Katol 132kV | 06/01/2020<br>18:30:00 | 75 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.903  | 0.000000    |
| Katol 132kV | 06/01/2020<br>18:45:00 | 76 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.903  | 0.000000    |
| Katol 132kV | 06/01/2020<br>19:00:00 | 77 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -1.161 | 0.000000    |
| Katol 132kV | 06/01/2020<br>19:15:00 | 78 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -4.178 | 0.000000    |
| Katol 132kV | 06/01/2020<br>19:30:00 | 79 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -2.323 | 0.000000    |
| Katol 132kV | 06/01/2020<br>19:45:00 | 80 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -4.178 | 0.000000    |
| Katol 132kV | 06/01/2020<br>20:00:00 | 81 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -4.496 | 0.000000    |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 06/01/2020<br>20:15:00 | 82 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.770 | 0.000000 |
| Katol 132kV | 06/01/2020<br>20:30:00 | 83 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.770  | 0.000000 |
| Katol 132kV | 06/01/2020<br>20:45:00 | 84 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.178  | 0.000000 |
| Katol 132kV | 06/01/2020<br>21:00:00 | 85 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.222  | 0.000000 |
| Katol 132kV | 06/01/2020<br>21:15:00 | 86 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.742 | 0.000000 |
| Katol 132kV | 06/01/2020<br>21:30:00 | 87 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 06/01/2020<br>21:45:00 | 88 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.161  | 0.000000 |
| Katol 132kV | 06/01/2020<br>22:00:00 | 89 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.815  | 0.000000 |
| Katol 132kV | 06/01/2020<br>22:15:00 | 90 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.859  | 0.000000 |
| Katol 132kV | 06/01/2020<br>22:30:00 | 91 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.742  | 0.000000 |
| Katol 132kV | 06/01/2020<br>22:45:00 | 92 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.323 | 0.000000 |
| Katol 132kV | 06/01/2020<br>23:00:00 | 93 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.903 | 0.000000 |
| Katol 132kV | 06/01/2020<br>23:15:00 | 94 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.323  | 0.000000 |
| Katol 132kV | 06/01/2020<br>23:30:00 | 95 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.222 | 0.000000 |
| Katol 132kV | 06/01/2020<br>23:45:00 | 96 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.323  | 0.000000 |
| Katol 132kV | 07/01/2020<br>00:00:00 | 1  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.549 | 0.000000 |
| Katol 132kV | 07/01/2020<br>00:15:00 | 2  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.647 | 0.000000 |
| Katol 132kV | 07/01/2020<br>00:30:00 | 3  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.073 | 0.000000 |
| Katol 132kV | 07/01/2020<br>00:45:00 | 4  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.744 | 0.000000 |
| Katol 132kV | 07/01/2020<br>01:00:00 | 5  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.058 | 0.000000 |
| Katol 132kV | 07/01/2020<br>01:15:00 | 6  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.058 | 0.000000 |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 07/01/2020<br>01:30:00 | 7  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.401 | 0.000000 |
| Katol 132kV | 07/01/2020<br>01:45:00 | 8  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Katol 132kV | 07/01/2020<br>02:00:00 | 9  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.073  | 0.000000 |
| Katol 132kV | 07/01/2020<br>02:15:00 | 10 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.073  | 0.000000 |
| Katol 132kV | 07/01/2020<br>02:30:00 | 11 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.401  | 0.000000 |
| Katol 132kV | 07/01/2020<br>02:45:00 | 12 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.745  | 0.000000 |
| Katol 132kV | 07/01/2020<br>03:00:00 | 13 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Katol 132kV | 07/01/2020<br>03:15:00 | 14 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.196  | 0.000000 |
| Katol 132kV | 07/01/2020<br>03:30:00 | 15 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Katol 132kV | 07/01/2020<br>03:45:00 | 16 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.098  | 0.000000 |
| Katol 132kV | 07/01/2020<br>04:00:00 | 17 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Katol 132kV | 07/01/2020<br>04:15:00 | 18 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.210  | 0.000000 |
| Katol 132kV | 07/01/2020<br>04:30:00 | 19 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Katol 132kV | 07/01/2020<br>04:45:00 | 20 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.098 | 0.000000 |
| Katol 132kV | 07/01/2020<br>05:00:00 | 21 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.744 | 0.000000 |
| Katol 132kV | 07/01/2020<br>05:15:00 | 22 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Katol 132kV | 07/01/2020<br>05:30:00 | 23 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.073  | 0.000000 |
| Katol 132kV | 07/01/2020<br>05:45:00 | 24 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Katol 132kV | 07/01/2020<br>06:00:00 | 25 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.372 | 0.000000 |
| Katol 132kV | 07/01/2020<br>06:15:00 | 26 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.556  | 0.000000 |
| Katol 132kV | 07/01/2020<br>06:30:00 | 27 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 7.148  | 0.000000 |

|             |                        |    |         |         |         |          |       |        |        |            |
|-------------|------------------------|----|---------|---------|---------|----------|-------|--------|--------|------------|
| Katol 132kV | 07/01/2020<br>06:45:00 | 28 | 11000.0 | 60.75   | 32.9    | -27.85   | 0.25  | 0.00   | 7.821  | 147.332636 |
| Katol 132kV | 07/01/2020<br>07:00:00 | 29 | 11000.0 | 270.0   | 170.1   | -99.9    | 0.91  | 0.00   | 5.372  | 265.479092 |
| Katol 132kV | 07/01/2020<br>07:15:00 | 30 | 11000.0 | 630.0   | 458.8   | -171.2   | 1.56  | 0.00   | 16.000 | 0.000000   |
| Katol 132kV | 07/01/2020<br>07:30:00 | 31 | 11000.0 | 1089.0  | 799.35  | -289.65  | 2.63  | 0.00   | 9.296  | 0.000000   |
| Katol 132kV | 07/01/2020<br>07:45:00 | 32 | 11000.0 | 1604.25 | 1186.6  | -417.65  | 3.8   | 0.00   | 9.794  | 0.000000   |
| Katol 132kV | 07/01/2020<br>08:00:00 | 33 | 11000.0 | 2515.5  | 1574.15 | -941.35  | 8.56  | 0.00   | 3.593  | 0.000000   |
| Katol 132kV | 07/01/2020<br>08:15:00 | 34 | 11000.0 | 3782.25 | 2324.75 | -1457.5  | 13.25 | 0.00   | 3.401  | 0.000000   |
| Katol 132kV | 07/01/2020<br>08:30:00 | 35 | 11000.0 | 4752.0  | 3361.85 | -1390.15 | 12.64 | 0.00   | 3.245  | 0.000000   |
| Katol 132kV | 07/01/2020<br>08:45:00 | 36 | 11000.0 | 5514.75 | 4522.95 | -991.8   | 9.02  | 0.00   | 0.000  | 0.000000   |
| Katol 132kV | 07/01/2020<br>09:00:00 | 37 | 11000.0 | 6234.75 | 4003.45 | -2231.3  | 20.28 | 290.65 | 2.745  | 0.000000   |
| Katol 132kV | 07/01/2020<br>09:15:00 | 38 | 11000.0 | 6912.0  | 4243.05 | -2668.95 | 24.26 | 509.48 | 4.715  | 0.000000   |
| Katol 132kV | 07/01/2020<br>09:30:00 | 39 | 11000.0 | 7499.25 | 6061.8  | -1437.45 | 13.07 | 0.00   | 3.981  | 0.000000   |
| Katol 132kV | 07/01/2020<br>09:45:00 | 40 | 11000.0 | 8104.5  | 7390.1  | -714.4   | 6.49  | 0.00   | 3.730  | 0.000000   |
| Katol 132kV | 07/01/2020<br>10:00:00 | 41 | 11000.0 | 8525.25 | 7981.95 | -543.3   | 4.94  | 0.00   | 1.780  | 0.000000   |
| Katol 132kV | 07/01/2020<br>10:15:00 | 42 | 11000.0 | 8964.0  | 8595.45 | -368.55  | 3.35  | 0.00   | 5.643  | 0.000000   |
| Katol 132kV | 07/01/2020<br>10:30:00 | 43 | 11000.0 | 9317.25 | 9080.75 | -236.5   | 2.15  | 0.00   | 4.976  | 0.000000   |
| Katol 132kV | 07/01/2020<br>10:45:00 | 44 | 11000.0 | 9526.5  | 9588.75 | 62.25    | 0.57  | 0.00   | 4.415  | 0.000000   |
| Katol 132kV | 07/01/2020<br>11:00:00 | 45 | 11000.0 | 9609.75 | 9708.2  | 98.45    | 0.9   | 0.00   | 4.476  | 0.000000   |
| Katol 132kV | 07/01/2020<br>11:15:00 | 46 | 11000.0 | 9616.5  | 9685.75 | 69.25    | 0.63  | 0.00   | 4.826  | 0.000000   |
| Katol 132kV | 07/01/2020<br>11:30:00 | 47 | 11000.0 | 9618.75 | 9610.35 | -8.4     | 0.08  | 0.00   | 2.289  | 0.000000   |
| Katol 132kV | 07/01/2020<br>11:45:00 | 48 | 11000.0 | 9605.25 | 9832.35 | 227.1    | 2.06  | 0.00   | -0.549 | -2.849733  |

|             |                        |    |         |         |          |          |       |         |        |            |
|-------------|------------------------|----|---------|---------|----------|----------|-------|---------|--------|------------|
| Katol 132kV | 07/01/2020<br>12:00:00 | 49 | 11000.0 | 9623.25 | 9794.25  | 171.0    | 1.55  | 0.00    | 4.727  | 0.000000   |
| Katol 132kV | 07/01/2020<br>12:15:00 | 50 | 11000.0 | 9600.75 | 8746.15  | -854.6   | 7.77  | 0.00    | 4.777  | 0.000000   |
| Katol 132kV | 07/01/2020<br>12:30:00 | 51 | 11000.0 | 9621.0  | 8948.65  | -672.35  | 6.11  | 0.00    | 4.798  | 0.000000   |
| Katol 132kV | 07/01/2020<br>12:45:00 | 52 | 11000.0 | 9614.25 | 10022.45 | 408.2    | 3.71  | 0.00    | -3.401 | -8.352367  |
| Katol 132kV | 07/01/2020<br>13:00:00 | 53 | 11000.0 | 9582.75 | 9725.85  | 143.1    | 1.3   | 0.00    | -2.431 | -64.058800 |
| Katol 132kV | 07/01/2020<br>13:15:00 | 54 | 11000.0 | 9558.0  | 9411.8   | -146.2   | 1.33  | 0.00    | -4.387 | 0.000000   |
| Katol 132kV | 07/01/2020<br>13:30:00 | 55 | 11000.0 | 9171.0  | 8843.45  | -327.55  | 2.98  | 0.00    | -3.401 | 0.000000   |
| Katol 132kV | 07/01/2020<br>13:45:00 | 56 | 11000.0 | 9036.0  | 6119.55  | -2916.45 | 26.51 | 716.45  | -5.044 | 0.000000   |
| Katol 132kV | 07/01/2020<br>14:00:00 | 57 | 11000.0 | 8835.75 | 3788.6   | -5047.15 | 45.88 | 3445.73 | 4.215  | 0.000000   |
| Katol 132kV | 07/01/2020<br>14:15:00 | 58 | 11000.0 | 8509.5  | 3345.35  | -5164.15 | 46.95 | 3621.23 | 9.552  | 0.000000   |
| Katol 132kV | 07/01/2020<br>14:30:00 | 59 | 11000.0 | 8032.5  | 2607.2   | -5425.3  | 49.32 | 4012.95 | 6.358  | 0.000000   |
| Katol 132kV | 07/01/2020<br>14:45:00 | 60 | 11000.0 | 7647.75 | 2340.4   | -5307.35 | 48.25 | 3836.03 | 2.744  | 0.000000   |
| Katol 132kV | 07/01/2020<br>15:00:00 | 61 | 11000.0 | 7110.0  | 2678.55  | -4431.45 | 40.29 | 2522.18 | -3.073 | 0.000000   |
| Katol 132kV | 07/01/2020<br>15:15:00 | 62 | 11000.0 | 6468.75 | 3456.75  | -3012.0  | 27.38 | 812.00  | -4.058 | 0.000000   |
| Katol 132kV | 07/01/2020<br>15:30:00 | 63 | 11000.0 | 3846.37 | 2852.05  | -994.32  | 9.04  | 0.00    | -4.831 | 0.000000   |
| Katol 132kV | 07/01/2020<br>15:45:00 | 64 | 11000.0 | 3306.71 | 2272.2   | -1034.51 | 9.4   | 0.00    | -5.372 | 0.000000   |
| Katol 132kV | 07/01/2020<br>16:00:00 | 65 | 11000.0 | 2674.91 | 1679.15  | -995.76  | 9.05  | 0.00    | 2.196  | 0.000000   |
| Katol 132kV | 07/01/2020<br>16:15:00 | 66 | 11000.0 | 2066.51 | 1533.4   | -533.11  | 4.85  | 0.00    | -3.401 | 0.000000   |
| Katol 132kV | 07/01/2020<br>16:30:00 | 67 | 11000.0 | 1700.0  | 1263.65  | -436.35  | 3.97  | 0.00    | 4.738  | 0.000000   |
| Katol 132kV | 07/01/2020<br>16:45:00 | 68 | 11000.0 | 1665.0  | 728.25   | -936.75  | 8.52  | 0.00    | 7.343  | 0.000000   |
| Katol 132kV | 07/01/2020<br>17:00:00 | 69 | 11000.0 | 1557.5  | 364.4    | -1193.1  | 10.85 | 0.00    | 1.647  | 0.000000   |

|             |                        |    |         |        |       |          |       |      |        |            |
|-------------|------------------------|----|---------|--------|-------|----------|-------|------|--------|------------|
| Katol 132kV | 07/01/2020<br>17:15:00 | 70 | 11000.0 | 1277.5 | 137.9 | -1139.6  | 10.36 | 0.00 | 2.744  | 189.568044 |
| Katol 132kV | 07/01/2020<br>17:30:00 | 71 | 11000.0 | 1057.5 | 40.75 | -1016.75 | 9.24  | 0.00 | 3.401  | 67.135431  |
| Katol 132kV | 07/01/2020<br>17:45:00 | 72 | 11000.0 | 0.0    | 2.0   | 2.0      | 0.02  | 0.00 | -2.745 | 0.000000   |
| Katol 132kV | 07/01/2020<br>18:00:00 | 73 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -3.073 | 0.000000   |
| Katol 132kV | 07/01/2020<br>18:15:00 | 74 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -5.372 | 0.000000   |
| Katol 132kV | 07/01/2020<br>18:30:00 | 75 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | 3.401  | 0.000000   |
| Katol 132kV | 07/01/2020<br>18:45:00 | 76 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -3.401 | 0.000000   |
| Katol 132kV | 07/01/2020<br>19:00:00 | 77 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -3.730 | 0.000000   |
| Katol 132kV | 07/01/2020<br>19:15:00 | 78 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -4.715 | 0.000000   |
| Katol 132kV | 07/01/2020<br>19:30:00 | 79 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -4.058 | 0.000000   |
| Katol 132kV | 07/01/2020<br>19:45:00 | 80 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -2.210 | 0.000000   |
| Katol 132kV | 07/01/2020<br>20:00:00 | 81 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -2.348 | 0.000000   |
| Katol 132kV | 07/01/2020<br>20:15:00 | 82 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | 4.387  | 0.000000   |
| Katol 132kV | 07/01/2020<br>20:30:00 | 83 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | 3.816  | 0.000000   |
| Katol 132kV | 07/01/2020<br>20:45:00 | 84 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | 3.401  | 0.000000   |
| Katol 132kV | 07/01/2020<br>21:00:00 | 85 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -4.058 | 0.000000   |
| Katol 132kV | 07/01/2020<br>21:15:00 | 86 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | 1.647  | 0.000000   |
| Katol 132kV | 07/01/2020<br>21:30:00 | 87 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | 2.196  | 0.000000   |
| Katol 132kV | 07/01/2020<br>21:45:00 | 88 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -2.196 | 0.000000   |
| Katol 132kV | 07/01/2020<br>22:00:00 | 89 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -3.257 | 0.000000   |
| Katol 132kV | 07/01/2020<br>22:15:00 | 90 | 11000.0 | 0.0    | 0.0   | 0.0      | 0.0   | 0.00 | -1.900 | 0.000000   |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 07/01/2020<br>22:30:00 | 91 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.098 | 0.000000 |
| Katol 132kV | 07/01/2020<br>22:45:00 | 92 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.647 | 0.000000 |
| Katol 132kV | 07/01/2020<br>23:00:00 | 93 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.401 | 0.000000 |
| Katol 132kV | 07/01/2020<br>23:15:00 | 94 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Katol 132kV | 07/01/2020<br>23:30:00 | 95 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.196 | 0.000000 |
| Katol 132kV | 07/01/2020<br>23:45:00 | 96 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.549 | 0.000000 |
| Katol 132kV | 08/01/2020<br>00:00:00 | 1  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Katol 132kV | 08/01/2020<br>00:15:00 | 2  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Katol 132kV | 08/01/2020<br>00:30:00 | 3  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Katol 132kV | 08/01/2020<br>00:45:00 | 4  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.424 | 0.000000 |
| Katol 132kV | 08/01/2020<br>01:00:00 | 5  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.170 | 0.000000 |
| Katol 132kV | 08/01/2020<br>01:15:00 | 6  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.761 | 0.000000 |
| Katol 132kV | 08/01/2020<br>01:30:00 | 7  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.665 | 0.000000 |
| Katol 132kV | 08/01/2020<br>01:45:00 | 8  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.665 | 0.000000 |
| Katol 132kV | 08/01/2020<br>02:00:00 | 9  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.110 | 0.000000 |
| Katol 132kV | 08/01/2020<br>02:15:00 | 10 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.347 | 0.000000 |
| Katol 132kV | 08/01/2020<br>02:30:00 | 11 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Katol 132kV | 08/01/2020<br>02:45:00 | 12 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Katol 132kV | 08/01/2020<br>03:00:00 | 13 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.428 | 0.000000 |
| Katol 132kV | 08/01/2020<br>03:15:00 | 14 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Katol 132kV | 08/01/2020<br>03:30:00 | 15 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |

|             |                        |    |         |         |        |          |       |         |        |             |
|-------------|------------------------|----|---------|---------|--------|----------|-------|---------|--------|-------------|
| Katol 132kV | 08/01/2020<br>03:45:00 | 16 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -2.775 | 0.000000    |
| Katol 132kV | 08/01/2020<br>04:00:00 | 17 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -3.101 | 0.000000    |
| Katol 132kV | 08/01/2020<br>04:15:00 | 18 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -1.665 | 0.000000    |
| Katol 132kV | 08/01/2020<br>04:30:00 | 19 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -2.220 | 0.000000    |
| Katol 132kV | 08/01/2020<br>04:45:00 | 20 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -2.775 | 0.000000    |
| Katol 132kV | 08/01/2020<br>05:00:00 | 21 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -1.110 | 0.000000    |
| Katol 132kV | 08/01/2020<br>05:15:00 | 22 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | 2.775  | 0.000000    |
| Katol 132kV | 08/01/2020<br>05:30:00 | 23 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -3.428 | 0.000000    |
| Katol 132kV | 08/01/2020<br>05:45:00 | 24 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -2.775 | 0.000000    |
| Katol 132kV | 08/01/2020<br>06:00:00 | 25 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | -2.220 | 0.000000    |
| Katol 132kV | 08/01/2020<br>06:15:00 | 26 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | 2.220  | 0.000000    |
| Katol 132kV | 08/01/2020<br>06:30:00 | 27 | 11000.0 | 0.0     | 0.0    | 0.0      | 0.0   | 0.00    | 5.387  | 0.000000    |
| Katol 132kV | 08/01/2020<br>06:45:00 | 28 | 11000.0 | 60.75   | 1.0    | -59.75   | 0.54  | 0.00    | -4.734 | 0.000000    |
| Katol 132kV | 08/01/2020<br>07:00:00 | 29 | 11000.0 | 270.0   | 6.0    | -264.0   | 2.4   | 0.00    | -4.407 | 0.000000    |
| Katol 132kV | 08/01/2020<br>07:15:00 | 30 | 11000.0 | 630.0   | 2.0    | -628.0   | 5.71  | 0.00    | 5.061  | 1106.902452 |
| Katol 132kV | 08/01/2020<br>07:30:00 | 31 | 11000.0 | 1089.0  | 28.0   | -1061.0  | 9.65  | 0.00    | 5.714  | 1789.376775 |
| Katol 132kV | 08/01/2020<br>07:45:00 | 32 | 11000.0 | 1604.25 | 63.1   | -1541.15 | 14.01 | 0.00    | 5.061  | 1021.835503 |
| Katol 132kV | 08/01/2020<br>08:00:00 | 33 | 11000.0 | 2515.5  | 217.95 | -2297.55 | 20.89 | 323.78  | 2.775  | 0.000000    |
| Katol 132kV | 08/01/2020<br>08:15:00 | 34 | 11000.0 | 3782.25 | 384.55 | -3397.7  | 30.89 | 1197.70 | 2.775  | 0.000000    |
| Katol 132kV | 08/01/2020<br>08:30:00 | 35 | 11000.0 | 4752.0  | 594.4  | -4157.6  | 37.8  | 2111.40 | 5.387  | 0.000000    |
| Katol 132kV | 08/01/2020<br>08:45:00 | 36 | 11000.0 | 1195.0  | 919.0  | -276.0   | 2.51  | 0.00    | 16.000 | 0.000000    |

|             |                        |    |         |        |         |         |       |         |        |             |
|-------------|------------------------|----|---------|--------|---------|---------|-------|---------|--------|-------------|
| Katol 132kV | 08/01/2020<br>09:00:00 | 37 | 11000.0 | 1340.0 | 1047.3  | -292.7  | 2.66  | 0.00    | 7.673  | 0.000000    |
| Katol 132kV | 08/01/2020<br>09:15:00 | 38 | 11000.0 | 1485.0 | 1048.3  | -436.7  | 3.97  | 0.00    | 7.673  | 0.000000    |
| Katol 132kV | 08/01/2020<br>09:30:00 | 39 | 11000.0 | 2342.5 | 1088.3  | -1254.2 | 11.4  | 0.00    | 3.101  | 0.000000    |
| Katol 132kV | 08/01/2020<br>09:45:00 | 40 | 11000.0 | 3200.0 | 1178.6  | -2021.4 | 18.38 | 185.70  | -3.101 | 0.000000    |
| Katol 132kV | 08/01/2020<br>10:00:00 | 41 | 11000.0 | 1875.0 | 1187.9  | -687.1  | 6.25  | 0.00    | -3.101 | 0.000000    |
| Katol 132kV | 08/01/2020<br>10:15:00 | 42 | 11000.0 | 1875.0 | 1326.15 | -548.85 | 4.99  | 0.00    | -3.101 | 0.000000    |
| Katol 132kV | 08/01/2020<br>10:30:00 | 43 | 11000.0 | 1875.0 | 1483.0  | -392.0  | 3.56  | 0.00    | -1.665 | 0.000000    |
| Katol 132kV | 08/01/2020<br>10:45:00 | 44 | 11000.0 | 1875.0 | 1289.5  | -585.5  | 5.32  | 0.00    | 0.000  | 0.000000    |
| Katol 132kV | 08/01/2020<br>11:00:00 | 45 | 11000.0 | 1875.0 | 1340.75 | -534.25 | 4.86  | 0.00    | -1.486 | 0.000000    |
| Katol 132kV | 08/01/2020<br>11:15:00 | 46 | 11000.0 | 1875.0 | 1384.6  | -490.4  | 4.46  | 0.00    | -1.305 | 0.000000    |
| Katol 132kV | 08/01/2020<br>11:30:00 | 47 | 11000.0 | 1875.0 | 1014.1  | -860.9  | 7.83  | 0.00    | -2.425 | 0.000000    |
| Katol 132kV | 08/01/2020<br>11:45:00 | 48 | 11000.0 | 1650.0 | 818.4   | -831.6  | 7.56  | 0.00    | -2.775 | 0.000000    |
| Katol 132kV | 08/01/2020<br>12:00:00 | 49 | 11000.0 | 1650.0 | 1168.1  | -481.9  | 4.38  | 0.00    | -2.083 | 0.000000    |
| Katol 132kV | 08/01/2020<br>12:15:00 | 50 | 11000.0 | 1650.0 | 1429.8  | -220.2  | 2.0   | 0.00    | -3.242 | 0.000000    |
| Katol 132kV | 08/01/2020<br>12:30:00 | 51 | 11000.0 | 1650.0 | 1553.35 | -96.65  | 0.88  | 0.00    | -1.330 | 0.000000    |
| Katol 132kV | 08/01/2020<br>12:45:00 | 52 | 11000.0 | 1650.0 | 2314.5  | 664.5   | 6.04  | 0.00    | -0.830 | -126.372263 |
| Katol 132kV | 08/01/2020<br>13:00:00 | 53 | 11000.0 | 1650.0 | 2542.35 | 892.35  | 8.11  | 0.00    | 2.775  | 0.000000    |
| Katol 132kV | 08/01/2020<br>13:15:00 | 54 | 11000.0 | 1650.0 | 2806.3  | 1156.3  | 10.51 | 0.00    | 0.000  | 0.000000    |
| Katol 132kV | 08/01/2020<br>13:30:00 | 55 | 11000.0 | 1750.0 | 3713.15 | 1963.15 | 17.85 | 156.58  | -1.012 | -171.423870 |
| Katol 132kV | 08/01/2020<br>13:45:00 | 56 | 11000.0 | 1750.0 | 5022.55 | 3272.55 | 29.75 | 1072.55 | -1.087 | -330.008810 |
| Katol 132kV | 08/01/2020<br>14:00:00 | 57 | 11000.0 | 1750.0 | 5096.65 | 3346.65 | 30.42 | 1146.65 | -3.101 | -980.320096 |

|             |                        |    |         |        |         |         |       |         |        |             |
|-------------|------------------------|----|---------|--------|---------|---------|-------|---------|--------|-------------|
| Katol 132kV | 08/01/2020<br>14:15:00 | 58 | 11000.0 | 1750.0 | 3556.25 | 1806.25 | 16.42 | 78.13   | -4.081 | -382.436993 |
| Katol 132kV | 08/01/2020<br>14:30:00 | 59 | 11000.0 | 1750.0 | 3536.95 | 1786.95 | 16.25 | 68.48   | -2.996 | -722.944572 |
| Katol 132kV | 08/01/2020<br>14:45:00 | 60 | 11000.0 | 1750.0 | 5168.15 | 3418.15 | 31.07 | 1218.15 | -3.101 | -518.679413 |
| Katol 132kV | 08/01/2020<br>15:00:00 | 61 | 11000.0 | 1750.0 | 5361.65 | 3611.65 | 32.83 | 1411.65 | -1.879 | -907.307786 |
| Katol 132kV | 08/01/2020<br>15:15:00 | 62 | 11000.0 | 1750.0 | 4964.1  | 3214.1  | 29.22 | 1014.10 | -4.081 | -113.060678 |
| Katol 132kV | 08/01/2020<br>15:30:00 | 63 | 11000.0 | 1750.0 | 4262.2  | 2512.2  | 22.84 | 431.10  | 4.938  | 0.000000    |
| Katol 132kV | 08/01/2020<br>15:45:00 | 64 | 11000.0 | 1650.0 | 3024.65 | 1374.65 | 12.5  | 0.00    | 4.719  | 0.000000    |
| Katol 132kV | 08/01/2020<br>16:00:00 | 65 | 11000.0 | 1646.1 | 2271.15 | 625.05  | 5.68  | 0.00    | 0.555  | 0.000000    |
| Katol 132kV | 08/01/2020<br>16:15:00 | 66 | 11000.0 | 1271.7 | 2060.5  | 788.8   | 7.17  | 0.00    | -4.081 | -368.204580 |
| Katol 132kV | 08/01/2020<br>16:30:00 | 67 | 11000.0 | 689.4  | 1633.55 | 944.15  | 8.58  | 0.00    | -3.754 | -164.536552 |
| Katol 132kV | 08/01/2020<br>16:45:00 | 68 | 11000.0 | 426.6  | 1006.5  | 579.9   | 5.27  | 0.00    | -8.000 | 0.000000    |
| Katol 132kV | 08/01/2020<br>17:00:00 | 69 | 11000.0 | 253.8  | 560.4   | 306.6   | 2.79  | 0.00    | 0.000  | 0.000000    |
| Katol 132kV | 08/01/2020<br>17:15:00 | 70 | 11000.0 | 88.2   | 293.1   | 204.9   | 1.86  | 0.00    | 4.081  | 0.000000    |
| Katol 132kV | 08/01/2020<br>17:30:00 | 71 | 11000.0 | 13.5   | 90.95   | 77.45   | 0.7   | 0.00    | -5.387 | 0.000000    |
| Katol 132kV | 08/01/2020<br>17:45:00 | 72 | 11000.0 | 0.0    | 7.1     | 7.1     | 0.06  | 0.00    | -3.101 | 0.000000    |
| Katol 132kV | 08/01/2020<br>18:00:00 | 73 | 11000.0 | 0.0    | 0.0     | 0.0     | 0.0   | 0.00    | -2.775 | 0.000000    |
| Katol 132kV | 08/01/2020<br>18:15:00 | 74 | 11000.0 | 0.0    | 0.0     | 0.0     | 0.0   | 0.00    | -3.101 | 0.000000    |
| Katol 132kV | 08/01/2020<br>18:30:00 | 75 | 11000.0 | 0.0    | 0.0     | 0.0     | 0.0   | 0.00    | -2.220 | 0.000000    |
| Katol 132kV | 08/01/2020<br>18:45:00 | 76 | 11000.0 | 0.0    | 0.0     | 0.0     | 0.0   | 0.00    | 2.220  | 0.000000    |
| Katol 132kV | 08/01/2020<br>19:00:00 | 77 | 11000.0 | 0.0    | 0.0     | 0.0     | 0.0   | 0.00    | 1.110  | 0.000000    |
| Katol 132kV | 08/01/2020<br>19:15:00 | 78 | 11000.0 | 0.0    | 0.0     | 0.0     | 0.0   | 0.00    | -2.220 | 0.000000    |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 08/01/2020<br>19:30:00 | 79 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Katol 132kV | 08/01/2020<br>19:45:00 | 80 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.555 | 0.000000 |
| Katol 132kV | 08/01/2020<br>20:00:00 | 81 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.775  | 0.000000 |
| Katol 132kV | 08/01/2020<br>20:15:00 | 82 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.101  | 0.000000 |
| Katol 132kV | 08/01/2020<br>20:30:00 | 83 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.408  | 0.000000 |
| Katol 132kV | 08/01/2020<br>20:45:00 | 84 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.101  | 0.000000 |
| Katol 132kV | 08/01/2020<br>21:00:00 | 85 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.101  | 0.000000 |
| Katol 132kV | 08/01/2020<br>21:15:00 | 86 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.555 | 0.000000 |
| Katol 132kV | 08/01/2020<br>21:30:00 | 87 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.110 | 0.000000 |
| Katol 132kV | 08/01/2020<br>21:45:00 | 88 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.110 | 0.000000 |
| Katol 132kV | 08/01/2020<br>22:00:00 | 89 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.489 | 0.000000 |
| Katol 132kV | 08/01/2020<br>22:15:00 | 90 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.775 | 0.000000 |
| Katol 132kV | 08/01/2020<br>22:30:00 | 91 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.223 | 0.000000 |
| Katol 132kV | 08/01/2020<br>22:45:00 | 92 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.110  | 0.000000 |
| Katol 132kV | 08/01/2020<br>23:00:00 | 93 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.110  | 0.000000 |
| Katol 132kV | 08/01/2020<br>23:15:00 | 94 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.110  | 0.000000 |
| Katol 132kV | 08/01/2020<br>23:30:00 | 95 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.775  | 0.000000 |
| Katol 132kV | 08/01/2020<br>23:45:00 | 96 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 09/01/2020<br>00:00:00 | 1  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.576 | 0.000000 |
| Katol 132kV | 09/01/2020<br>00:15:00 | 2  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.727 | 0.000000 |
| Katol 132kV | 09/01/2020<br>00:30:00 | 3  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.879 | 0.000000 |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 09/01/2020<br>00:45:00 | 4  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.879 | 0.000000 |
| Katol 132kV | 09/01/2020<br>01:00:00 | 5  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.519 | 0.000000 |
| Katol 132kV | 09/01/2020<br>01:15:00 | 6  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.519 | 0.000000 |
| Katol 132kV | 09/01/2020<br>01:30:00 | 7  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.199 | 0.000000 |
| Katol 132kV | 09/01/2020<br>01:45:00 | 8  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.519  | 0.000000 |
| Katol 132kV | 09/01/2020<br>02:00:00 | 9  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.519  | 0.000000 |
| Katol 132kV | 09/01/2020<br>02:15:00 | 10 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.879  | 0.000000 |
| Katol 132kV | 09/01/2020<br>02:30:00 | 11 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.199  | 0.000000 |
| Katol 132kV | 09/01/2020<br>02:45:00 | 12 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.152  | 0.000000 |
| Katol 132kV | 09/01/2020<br>03:00:00 | 13 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.879 | 0.000000 |
| Katol 132kV | 09/01/2020<br>03:15:00 | 14 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.839 | 0.000000 |
| Katol 132kV | 09/01/2020<br>03:30:00 | 15 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.199  | 0.000000 |
| Katol 132kV | 09/01/2020<br>03:45:00 | 16 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 09/01/2020<br>04:00:00 | 17 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Katol 132kV | 09/01/2020<br>04:15:00 | 18 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Katol 132kV | 09/01/2020<br>04:30:00 | 19 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Katol 132kV | 09/01/2020<br>04:45:00 | 20 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.879  | 0.000000 |
| Katol 132kV | 09/01/2020<br>05:00:00 | 21 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.839  | 0.000000 |
| Katol 132kV | 09/01/2020<br>05:15:00 | 22 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.119  | 0.000000 |
| Katol 132kV | 09/01/2020<br>05:30:00 | 23 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.064  | 0.000000 |
| Katol 132kV | 09/01/2020<br>05:45:00 | 24 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.152  | 0.000000 |

|             |                        |    |         |         |          |          |       |        |        |             |
|-------------|------------------------|----|---------|---------|----------|----------|-------|--------|--------|-------------|
| Katol 132kV | 09/01/2020<br>06:00:00 | 25 | 11000.0 | 0.0     | 0.0      | 0.0      | 0.0   | 0.00   | -2.303 | 0.000000    |
| Katol 132kV | 09/01/2020<br>06:15:00 | 26 | 11000.0 | 0.0     | 0.0      | 0.0      | 0.0   | 0.00   | 2.303  | 0.000000    |
| Katol 132kV | 09/01/2020<br>06:30:00 | 27 | 11000.0 | 0.0     | 0.0      | 0.0      | 0.0   | 0.00   | -3.839 | 0.000000    |
| Katol 132kV | 09/01/2020<br>06:45:00 | 28 | 11000.0 | 60.75   | 15.5     | -45.25   | 0.41  | 0.00   | -2.879 | 0.000000    |
| Katol 132kV | 09/01/2020<br>07:00:00 | 29 | 11000.0 | 270.0   | 163.15   | -106.85  | 0.97  | 0.00   | -2.879 | 0.000000    |
| Katol 132kV | 09/01/2020<br>07:15:00 | 30 | 11000.0 | 630.0   | 514.7    | -115.3   | 1.05  | 0.00   | 6.400  | 57.362519   |
| Katol 132kV | 09/01/2020<br>07:30:00 | 31 | 11000.0 | 1089.0  | 709.75   | -379.25  | 3.45  | 0.00   | 1.172  | 0.000000    |
| Katol 132kV | 09/01/2020<br>07:45:00 | 32 | 11000.0 | 1604.25 | 1093.85  | -510.4   | 4.64  | 0.00   | 0.576  | 0.000000    |
| Katol 132kV | 09/01/2020<br>08:00:00 | 33 | 11000.0 | 2515.5  | 1696.0   | -819.5   | 7.45  | 0.00   | -0.576 | 0.000000    |
| Katol 132kV | 09/01/2020<br>08:15:00 | 34 | 11000.0 | 3782.25 | 2333.15  | -1449.1  | 13.17 | 0.00   | -1.152 | 0.000000    |
| Katol 132kV | 09/01/2020<br>08:30:00 | 35 | 11000.0 | 4752.0  | 2847.65  | -1904.35 | 17.31 | 127.18 | 0.576  | 0.000000    |
| Katol 132kV | 09/01/2020<br>08:45:00 | 36 | 11000.0 | 5514.75 | 3405.05  | -2109.7  | 19.18 | 229.85 | 0.000  | 0.000000    |
| Katol 132kV | 09/01/2020<br>09:00:00 | 37 | 11000.0 | 6234.75 | 3864.0   | -2370.75 | 21.55 | 360.38 | 1.152  | 0.000000    |
| Katol 132kV | 09/01/2020<br>09:15:00 | 38 | 11000.0 | 6912.0  | 5109.9   | -1802.1  | 16.38 | 76.05  | 1.727  | 0.000000    |
| Katol 132kV | 09/01/2020<br>09:30:00 | 39 | 11000.0 | 5490.0  | 6698.85  | 1208.85  | 10.99 | 0.00   | -3.839 | -52.092616  |
| Katol 132kV | 09/01/2020<br>09:45:00 | 40 | 11000.0 | 6322.5  | 7468.6   | 1146.1   | 10.42 | 0.00   | -1.152 | -9.411741   |
| Katol 132kV | 09/01/2020<br>10:00:00 | 41 | 11000.0 | 6327.5  | 7966.15  | 1638.65  | 14.9  | 0.00   | 0.000  | 0.000000    |
| Katol 132kV | 09/01/2020<br>10:15:00 | 42 | 11000.0 | 7062.5  | 8609.35  | 1546.85  | 14.06 | 0.00   | 1.727  | 0.000000    |
| Katol 132kV | 09/01/2020<br>10:30:00 | 43 | 11000.0 | 7160.0  | 9037.3   | 1877.3   | 17.07 | 113.65 | 2.303  | 0.000000    |
| Katol 132kV | 09/01/2020<br>10:45:00 | 44 | 11000.0 | 9468.0  | 9587.65  | 119.65   | 1.09  | 0.00   | -1.144 | -11.220255  |
| Katol 132kV | 09/01/2020<br>11:00:00 | 45 | 11000.0 | 9564.75 | 10082.95 | 518.2    | 4.71  | 0.00   | -4.479 | -150.715427 |

|             |                        |    |         |         |          |          |       |      |        |             |
|-------------|------------------------|----|---------|---------|----------|----------|-------|------|--------|-------------|
| Katol 132kV | 09/01/2020<br>11:15:00 | 46 | 11000.0 | 9603.0  | 10308.55 | 705.55   | 6.41  | 0.00 | -3.519 | -129.209298 |
| Katol 132kV | 09/01/2020<br>11:30:00 | 47 | 11000.0 | 9618.75 | 10105.65 | 486.9    | 4.43  | 0.00 | -2.303 | -63.099603  |
| Katol 132kV | 09/01/2020<br>11:45:00 | 48 | 11000.0 | 9594.0  | 10230.95 | 636.95   | 5.79  | 0.00 | -0.576 | -9.164933   |
| Katol 132kV | 09/01/2020<br>12:00:00 | 49 | 11000.0 | 9585.0  | 10408.5  | 823.5    | 7.49  | 0.00 | 0.000  | 0.000000    |
| Katol 132kV | 09/01/2020<br>12:15:00 | 50 | 11000.0 | 9906.83 | 10224.25 | 317.42   | 2.89  | 0.00 | 3.839  | 0.000000    |
| Katol 132kV | 09/01/2020<br>12:30:00 | 51 | 11000.0 | 9911.48 | 10124.9  | 213.42   | 1.94  | 0.00 | 3.199  | 0.000000    |
| Katol 132kV | 09/01/2020<br>12:45:00 | 52 | 11000.0 | 9869.63 | 10033.75 | 164.12   | 1.49  | 0.00 | 3.199  | 0.000000    |
| Katol 132kV | 09/01/2020<br>13:00:00 | 53 | 11000.0 | 9739.42 | 9687.15  | -52.27   | 0.48  | 0.00 | -1.152 | 0.000000    |
| Katol 132kV | 09/01/2020<br>13:15:00 | 54 | 11000.0 | 9609.23 | 9552.15  | -57.08   | 0.52  | 0.00 | -1.152 | 0.000000    |
| Katol 132kV | 09/01/2020<br>13:30:00 | 55 | 11000.0 | 9311.62 | 9500.2   | 188.58   | 1.71  | 0.00 | 1.727  | 0.000000    |
| Katol 132kV | 09/01/2020<br>13:45:00 | 56 | 11000.0 | 9069.83 | 9590.8   | 520.97   | 4.74  | 0.00 | 3.199  | 0.000000    |
| Katol 132kV | 09/01/2020<br>14:00:00 | 57 | 11000.0 | 8732.7  | 8797.3   | 64.6     | 0.59  | 0.00 | 4.345  | 0.000000    |
| Katol 132kV | 09/01/2020<br>14:15:00 | 58 | 11000.0 | 8344.43 | 8358.1   | 13.67    | 0.12  | 0.00 | 3.941  | 0.000000    |
| Katol 132kV | 09/01/2020<br>14:30:00 | 59 | 11000.0 | 7828.28 | 7617.85  | -210.43  | 1.91  | 0.00 | 1.152  | 0.000000    |
| Katol 132kV | 09/01/2020<br>14:45:00 | 60 | 11000.0 | 7421.4  | 6913.55  | -507.85  | 4.62  | 0.00 | -0.576 | 0.000000    |
| Katol 132kV | 09/01/2020<br>15:00:00 | 61 | 11000.0 | 6891.3  | 5966.1   | -925.2   | 8.41  | 0.00 | -1.006 | 0.000000    |
| Katol 132kV | 09/01/2020<br>15:15:00 | 62 | 11000.0 | 6277.5  | 4843.2   | -1434.3  | 13.04 | 0.00 | 3.199  | 0.000000    |
| Katol 132kV | 09/01/2020<br>15:30:00 | 63 | 11000.0 | 5638.12 | 4349.85  | -1288.27 | 11.71 | 0.00 | 2.879  | 0.000000    |
| Katol 132kV | 09/01/2020<br>15:45:00 | 64 | 11000.0 | 4959.23 | 4320.3   | -638.93  | 5.81  | 0.00 | 3.839  | 0.000000    |
| Katol 132kV | 09/01/2020<br>16:00:00 | 65 | 11000.0 | 4103.62 | 3612.6   | -491.02  | 4.46  | 0.00 | 1.727  | 0.000000    |
| Katol 132kV | 09/01/2020<br>16:15:00 | 66 | 11000.0 | 1650.0  | 2780.5   | 1130.5   | 10.28 | 0.00 | -1.727 | 0.000000    |

|             |                        |    |         |        |         |        |      |      |        |          |
|-------------|------------------------|----|---------|--------|---------|--------|------|------|--------|----------|
| Katol 132kV | 09/01/2020<br>16:30:00 | 67 | 11000.0 | 1450.0 | 1967.9  | 517.9  | 4.71 | 0.00 | -4.159 | 0.000000 |
| Katol 132kV | 09/01/2020<br>16:45:00 | 68 | 11000.0 | 1015.0 | 1260.75 | 245.75 | 2.23 | 0.00 | 3.839  | 0.000000 |
| Katol 132kV | 09/01/2020<br>17:00:00 | 69 | 11000.0 | 567.5  | 731.1   | 163.6  | 1.49 | 0.00 | 1.727  | 0.000000 |
| Katol 132kV | 09/01/2020<br>17:15:00 | 70 | 11000.0 | 205.0  | 364.0   | 159.0  | 1.45 | 0.00 | 3.839  | 0.000000 |
| Katol 132kV | 09/01/2020<br>17:30:00 | 71 | 11000.0 | 30.0   | 115.8   | 85.8   | 0.78 | 0.00 | -2.879 | 0.000000 |
| Katol 132kV | 09/01/2020<br>17:45:00 | 72 | 11000.0 | 0.0    | 12.5    | 12.5   | 0.11 | 0.00 | -4.146 | 0.000000 |
| Katol 132kV | 09/01/2020<br>18:00:00 | 73 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -3.349 | 0.000000 |
| Katol 132kV | 09/01/2020<br>18:15:00 | 74 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -4.563 | 0.000000 |
| Katol 132kV | 09/01/2020<br>18:30:00 | 75 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -3.839 | 0.000000 |
| Katol 132kV | 09/01/2020<br>18:45:00 | 76 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -2.879 | 0.000000 |
| Katol 132kV | 09/01/2020<br>19:00:00 | 77 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -3.199 | 0.000000 |
| Katol 132kV | 09/01/2020<br>19:15:00 | 78 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -1.727 | 0.000000 |
| Katol 132kV | 09/01/2020<br>19:30:00 | 79 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -1.442 | 0.000000 |
| Katol 132kV | 09/01/2020<br>19:45:00 | 80 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -0.286 | 0.000000 |
| Katol 132kV | 09/01/2020<br>20:00:00 | 81 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -1.070 | 0.000000 |
| Katol 132kV | 09/01/2020<br>20:15:00 | 82 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -2.236 | 0.000000 |
| Katol 132kV | 09/01/2020<br>20:30:00 | 83 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -4.799 | 0.000000 |
| Katol 132kV | 09/01/2020<br>20:45:00 | 84 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -1.727 | 0.000000 |
| Katol 132kV | 09/01/2020<br>21:00:00 | 85 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | -1.727 | 0.000000 |
| Katol 132kV | 09/01/2020<br>21:15:00 | 86 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | 1.152  | 0.000000 |
| Katol 132kV | 09/01/2020<br>21:30:00 | 87 | 11000.0 | 0.0    | 0.0     | 0.0    | 0.0  | 0.00 | 1.152  | 0.000000 |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 09/01/2020<br>21:45:00 | 88 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.303 | 0.000000 |
| Katol 132kV | 09/01/2020<br>22:00:00 | 89 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.795 | 0.000000 |
| Katol 132kV | 09/01/2020<br>22:15:00 | 90 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.674 | 0.000000 |
| Katol 132kV | 09/01/2020<br>22:30:00 | 91 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.303 | 0.000000 |
| Katol 132kV | 09/01/2020<br>22:45:00 | 92 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.152 | 0.000000 |
| Katol 132kV | 09/01/2020<br>23:00:00 | 93 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 09/01/2020<br>23:15:00 | 94 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.576 | 0.000000 |
| Katol 132kV | 09/01/2020<br>23:30:00 | 95 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.576 | 0.000000 |
| Katol 132kV | 09/01/2020<br>23:45:00 | 96 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.987 | 0.000000 |
| Katol 132kV | 10/01/2020<br>00:00:00 | 1  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.680 | 0.000000 |
| Katol 132kV | 10/01/2020<br>00:15:00 | 2  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.326 | 0.000000 |
| Katol 132kV | 10/01/2020<br>00:30:00 | 3  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.992 | 0.000000 |
| Katol 132kV | 10/01/2020<br>00:45:00 | 4  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.532 | 0.000000 |
| Katol 132kV | 10/01/2020<br>01:00:00 | 5  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.713 | 0.000000 |
| Katol 132kV | 10/01/2020<br>01:15:00 | 6  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.548 | 0.000000 |
| Katol 132kV | 10/01/2020<br>01:30:00 | 7  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Katol 132kV | 10/01/2020<br>01:45:00 | 8  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.127  | 0.000000 |
| Katol 132kV | 10/01/2020<br>02:00:00 | 9  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.342  | 0.000000 |
| Katol 132kV | 10/01/2020<br>02:15:00 | 10 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.595  | 0.000000 |
| Katol 132kV | 10/01/2020<br>02:30:00 | 11 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.326  | 0.000000 |
| Katol 132kV | 10/01/2020<br>02:45:00 | 12 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.658  | 0.000000 |

|             |                        |    |         |         |         |        |      |      |        |          |
|-------------|------------------------|----|---------|---------|---------|--------|------|------|--------|----------|
| Katol 132kV | 10/01/2020<br>03:00:00 | 13 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.658  | 0.000000 |
| Katol 132kV | 10/01/2020<br>03:15:00 | 14 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.127  | 0.000000 |
| Katol 132kV | 10/01/2020<br>03:30:00 | 15 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.127  | 0.000000 |
| Katol 132kV | 10/01/2020<br>03:45:00 | 16 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -1.063 | 0.000000 |
| Katol 132kV | 10/01/2020<br>04:00:00 | 17 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 1.595  | 0.000000 |
| Katol 132kV | 10/01/2020<br>04:15:00 | 18 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 3.326  | 0.000000 |
| Katol 132kV | 10/01/2020<br>04:30:00 | 19 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 3.326  | 0.000000 |
| Katol 132kV | 10/01/2020<br>04:45:00 | 20 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.127  | 0.000000 |
| Katol 132kV | 10/01/2020<br>05:00:00 | 21 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.992  | 0.000000 |
| Katol 132kV | 10/01/2020<br>05:15:00 | 22 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 1.063  | 0.000000 |
| Katol 132kV | 10/01/2020<br>05:30:00 | 23 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -2.658 | 0.000000 |
| Katol 132kV | 10/01/2020<br>05:45:00 | 24 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.127  | 0.000000 |
| Katol 132kV | 10/01/2020<br>06:00:00 | 25 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | -2.127 | 0.000000 |
| Katol 132kV | 10/01/2020<br>06:15:00 | 26 | 11000.0 | 0.0     | 0.0     | 0.0    | 0.0  | 0.00 | 2.658  | 0.000000 |
| Katol 132kV | 10/01/2020<br>06:30:00 | 27 | 11000.0 | 0.0     | 1.65    | 1.65   | 0.01 | 0.00 | -2.992 | 0.000000 |
| Katol 132kV | 10/01/2020<br>06:45:00 | 28 | 11000.0 | 60.75   | 65.2    | 4.45   | 0.04 | 0.00 | -3.077 | 0.000000 |
| Katol 132kV | 10/01/2020<br>07:00:00 | 29 | 11000.0 | 270.0   | 288.7   | 18.7   | 0.17 | 0.00 | -0.687 | 0.000000 |
| Katol 132kV | 10/01/2020<br>07:15:00 | 30 | 11000.0 | 630.0   | 702.65  | 72.65  | 0.66 | 0.00 | -2.658 | 0.000000 |
| Katol 132kV | 10/01/2020<br>07:30:00 | 31 | 11000.0 | 1089.0  | 1253.55 | 164.55 | 1.5  | 0.00 | -1.063 | 0.000000 |
| Katol 132kV | 10/01/2020<br>07:45:00 | 32 | 11000.0 | 1604.25 | 1928.15 | 323.9  | 2.94 | 0.00 | -2.658 | 0.000000 |
| Katol 132kV | 10/01/2020<br>08:00:00 | 33 | 11000.0 | 2515.5  | 2848.4  | 332.9  | 3.03 | 0.00 | -4.328 | 0.000000 |

|             |                        |    |         |          |          |         |       |      |        |             |
|-------------|------------------------|----|---------|----------|----------|---------|-------|------|--------|-------------|
| Katol 132kV | 10/01/2020<br>08:15:00 | 34 | 11000.0 | 3782.25  | 4354.65  | 572.4   | 5.2   | 0.00 | -4.661 | -75.227942  |
| Katol 132kV | 10/01/2020<br>08:30:00 | 35 | 11000.0 | 4752.0   | 5671.85  | 919.85  | 8.36  | 0.00 | 5.663  | 0.000000    |
| Katol 132kV | 10/01/2020<br>08:45:00 | 36 | 11000.0 | 5514.75  | 6680.7   | 1165.95 | 10.6  | 0.00 | 4.328  | 0.000000    |
| Katol 132kV | 10/01/2020<br>09:00:00 | 37 | 11000.0 | 6234.75  | 7512.75  | 1278.0  | 11.62 | 0.00 | -4.995 | -233.067049 |
| Katol 132kV | 10/01/2020<br>09:15:00 | 38 | 11000.0 | 6912.0   | 8274.7   | 1362.7  | 12.39 | 0.00 | -4.327 | -178.140653 |
| Katol 132kV | 10/01/2020<br>09:30:00 | 39 | 11000.0 | 8249.18  | 8927.65  | 678.47  | 6.17  | 0.00 | -2.127 | -133.216711 |
| Katol 132kV | 10/01/2020<br>09:45:00 | 40 | 11000.0 | 8914.95  | 9527.85  | 612.9   | 5.57  | 0.00 | -1.152 | -114.903972 |
| Katol 132kV | 10/01/2020<br>10:00:00 | 41 | 11000.0 | 9377.78  | 10079.5  | 701.72  | 6.38  | 0.00 | 0.000  | 0.000000    |
| Katol 132kV | 10/01/2020<br>10:15:00 | 42 | 11000.0 | 9860.4   | 10496.1  | 635.7   | 5.78  | 0.00 | -0.532 | -19.570173  |
| Katol 132kV | 10/01/2020<br>10:30:00 | 43 | 11000.0 | 9969.46  | 10774.15 | 804.69  | 7.32  | 0.00 | -1.063 | -48.068783  |
| Katol 132kV | 10/01/2020<br>10:45:00 | 44 | 11000.0 | 10285.55 | 11065.25 | 779.7   | 7.09  | 0.00 | 0.000  | 0.000000    |
| Katol 132kV | 10/01/2020<br>11:00:00 | 45 | 11000.0 | 10355.45 | 11265.25 | 909.8   | 8.27  | 0.00 | 2.658  | 0.000000    |
| Katol 132kV | 10/01/2020<br>11:15:00 | 46 | 11000.0 | 10360.71 | 11345.45 | 984.74  | 8.95  | 0.00 | 0.000  | 0.000000    |
| Katol 132kV | 10/01/2020<br>11:30:00 | 47 | 11000.0 | 10442.31 | 11388.55 | 946.24  | 8.6   | 0.00 | -1.595 | -25.768380  |
| Katol 132kV | 10/01/2020<br>11:45:00 | 48 | 11000.0 | 10427.65 | 11398.75 | 971.1   | 8.83  | 0.00 | 2.992  | 0.000000    |
| Katol 132kV | 10/01/2020<br>12:00:00 | 49 | 11000.0 | 10447.19 | 11400.6  | 953.41  | 8.67  | 0.00 | 0.000  | 0.000000    |
| Katol 132kV | 10/01/2020<br>12:15:00 | 50 | 11000.0 | 10422.77 | 11384.1  | 961.33  | 8.74  | 0.00 | 2.127  | 0.000000    |
| Katol 132kV | 10/01/2020<br>12:30:00 | 51 | 11000.0 | 10444.75 | 11381.45 | 936.7   | 8.52  | 0.00 | 1.595  | 0.000000    |
| Katol 132kV | 10/01/2020<br>12:45:00 | 52 | 11000.0 | 10437.42 | 11370.85 | 933.43  | 8.49  | 0.00 | -1.063 | -37.087128  |
| Katol 132kV | 10/01/2020<br>13:00:00 | 53 | 11000.0 | 10296.75 | 11348.05 | 1051.3  | 9.56  | 0.00 | 2.658  | 0.000000    |
| Katol 132kV | 10/01/2020<br>13:15:00 | 54 | 11000.0 | 10258.35 | 11275.8  | 1017.45 | 9.25  | 0.00 | 2.658  | 0.000000    |

|             |                        |    |         |          |          |         |      |      |        |             |
|-------------|------------------------|----|---------|----------|----------|---------|------|------|--------|-------------|
| Katol 132kV | 10/01/2020<br>13:30:00 | 55 | 11000.0 | 10107.36 | 11104.7  | 997.34  | 9.07 | 0.00 | 2.127  | 0.000000    |
| Katol 132kV | 10/01/2020<br>13:45:00 | 56 | 11000.0 | 9958.58  | 10855.0  | 896.42  | 8.15 | 0.00 | -3.326 | -36.389882  |
| Katol 132kV | 10/01/2020<br>14:00:00 | 57 | 11000.0 | 9737.88  | 10528.15 | 790.27  | 7.18 | 0.00 | -2.992 | -2.556155   |
| Katol 132kV | 10/01/2020<br>14:15:00 | 58 | 11000.0 | 10027.5  | 10105.8  | 78.3    | 0.71 | 0.00 | 3.660  | 0.000000    |
| Katol 132kV | 10/01/2020<br>14:30:00 | 59 | 11000.0 | 9612.5   | 9666.75  | 54.25   | 0.49 | 0.00 | -2.127 | -3.237234   |
| Katol 132kV | 10/01/2020<br>14:45:00 | 60 | 11000.0 | 8765.73  | 9141.65  | 375.92  | 3.42 | 0.00 | -2.127 | -8.739481   |
| Katol 132kV | 10/01/2020<br>15:00:00 | 61 | 11000.0 | 8149.37  | 8518.4   | 369.03  | 3.35 | 0.00 | 0.000  | 0.000000    |
| Katol 132kV | 10/01/2020<br>15:15:00 | 62 | 11000.0 | 7414.38  | 7881.65  | 467.27  | 4.25 | 0.00 | -2.992 | -56.674188  |
| Katol 132kV | 10/01/2020<br>15:30:00 | 63 | 11000.0 | 6782.54  | 7221.6   | 439.06  | 3.99 | 0.00 | -4.995 | -188.621225 |
| Katol 132kV | 10/01/2020<br>15:45:00 | 64 | 11000.0 | 5830.92  | 6504.7   | 673.78  | 6.13 | 0.00 | -4.327 | -182.073850 |
| Katol 132kV | 10/01/2020<br>16:00:00 | 65 | 11000.0 | 4716.83  | 5595.3   | 878.47  | 7.99 | 0.00 | -4.995 | -32.719076  |
| Katol 132kV | 10/01/2020<br>16:15:00 | 66 | 11000.0 | 3644.01  | 4483.9   | 839.89  | 7.64 | 0.00 | -8.000 | -470.636001 |
| Katol 132kV | 10/01/2020<br>16:30:00 | 67 | 11000.0 | 1975.45  | 3141.3   | 1165.85 | 10.6 | 0.00 | -8.000 | -895.671660 |
| Katol 132kV | 10/01/2020<br>16:45:00 | 68 | 11000.0 | 1222.41  | 1887.0   | 664.59  | 6.04 | 0.00 | 4.327  | 0.000000    |
| Katol 132kV | 10/01/2020<br>17:00:00 | 69 | 11000.0 | 727.25   | 994.85   | 267.6   | 2.43 | 0.00 | 0.532  | 0.000000    |
| Katol 132kV | 10/01/2020<br>17:15:00 | 70 | 11000.0 | 252.73   | 467.6    | 214.87  | 1.95 | 0.00 | -1.595 | 0.000000    |
| Katol 132kV | 10/01/2020<br>17:30:00 | 71 | 11000.0 | 38.68    | 143.5    | 104.82  | 0.95 | 0.00 | -2.658 | 0.000000    |
| Katol 132kV | 10/01/2020<br>17:45:00 | 72 | 11000.0 | 0.0      | 18.85    | 18.85   | 0.17 | 0.00 | -2.127 | 0.000000    |
| Katol 132kV | 10/01/2020<br>18:00:00 | 73 | 11000.0 | 0.0      | 0.0      | 0.0     | 0.0  | 0.00 | -1.461 | 0.000000    |
| Katol 132kV | 10/01/2020<br>18:15:00 | 74 | 11000.0 | 0.0      | 0.0      | 0.0     | 0.0  | 0.00 | 3.326  | 0.000000    |
| Katol 132kV | 10/01/2020<br>18:30:00 | 75 | 11000.0 | 0.0      | 0.0      | 0.0     | 0.0  | 0.00 | -2.658 | 0.000000    |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 10/01/2020<br>18:45:00 | 76 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.994  | 0.000000 |
| Katol 132kV | 10/01/2020<br>19:00:00 | 77 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.127 | 0.000000 |
| Katol 132kV | 10/01/2020<br>19:15:00 | 78 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Katol 132kV | 10/01/2020<br>19:30:00 | 79 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.660 | 0.000000 |
| Katol 132kV | 10/01/2020<br>19:45:00 | 80 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.326 | 0.000000 |
| Katol 132kV | 10/01/2020<br>20:00:00 | 81 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.660  | 0.000000 |
| Katol 132kV | 10/01/2020<br>20:15:00 | 82 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.660  | 0.000000 |
| Katol 132kV | 10/01/2020<br>20:30:00 | 83 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.995  | 0.000000 |
| Katol 132kV | 10/01/2020<br>20:45:00 | 84 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.992  | 0.000000 |
| Katol 132kV | 10/01/2020<br>21:00:00 | 85 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.660 | 0.000000 |
| Katol 132kV | 10/01/2020<br>21:15:00 | 86 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.595 | 0.000000 |
| Katol 132kV | 10/01/2020<br>21:30:00 | 87 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.063 | 0.000000 |
| Katol 132kV | 10/01/2020<br>21:45:00 | 88 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.532 | 0.000000 |
| Katol 132kV | 10/01/2020<br>22:00:00 | 89 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.595 | 0.000000 |
| Katol 132kV | 10/01/2020<br>22:15:00 | 90 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.127 | 0.000000 |
| Katol 132kV | 10/01/2020<br>22:30:00 | 91 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.063  | 0.000000 |
| Katol 132kV | 10/01/2020<br>22:45:00 | 92 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Katol 132kV | 10/01/2020<br>23:00:00 | 93 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Katol 132kV | 10/01/2020<br>23:15:00 | 94 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 10/01/2020<br>23:30:00 | 95 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 10/01/2020<br>23:45:00 | 96 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 11/01/2020<br>00:00:00 | 1  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 11/01/2020<br>00:15:00 | 2  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.629 | 0.000000 |
| Katol 132kV | 11/01/2020<br>00:30:00 | 3  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.577 | 0.000000 |
| Katol 132kV | 11/01/2020<br>00:45:00 | 4  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.103  | 0.000000 |
| Katol 132kV | 11/01/2020<br>01:00:00 | 5  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.964  | 0.000000 |
| Katol 132kV | 11/01/2020<br>01:15:00 | 6  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.052  | 0.000000 |
| Katol 132kV | 11/01/2020<br>01:30:00 | 7  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.577  | 0.000000 |
| Katol 132kV | 11/01/2020<br>01:45:00 | 8  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.526 | 0.000000 |
| Katol 132kV | 11/01/2020<br>02:00:00 | 9  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.403 | 0.000000 |
| Katol 132kV | 11/01/2020<br>02:15:00 | 10 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.630 | 0.000000 |
| Katol 132kV | 11/01/2020<br>02:30:00 | 11 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.526 | 0.000000 |
| Katol 132kV | 11/01/2020<br>02:45:00 | 12 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.526 | 0.000000 |
| Katol 132kV | 11/01/2020<br>03:00:00 | 13 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.051 | 0.000000 |
| Katol 132kV | 11/01/2020<br>03:15:00 | 14 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 11/01/2020<br>03:30:00 | 15 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 11/01/2020<br>03:45:00 | 16 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 11/01/2020<br>04:00:00 | 17 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 11/01/2020<br>04:15:00 | 18 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.051 | 0.000000 |
| Katol 132kV | 11/01/2020<br>04:30:00 | 19 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.964 | 0.000000 |
| Katol 132kV | 11/01/2020<br>04:45:00 | 20 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.300 | 0.000000 |
| Katol 132kV | 11/01/2020<br>05:00:00 | 21 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.307  | 0.000000 |

|             |                        |    |         |        |          |         |       |        |        |             |
|-------------|------------------------|----|---------|--------|----------|---------|-------|--------|--------|-------------|
| Katol 132kV | 11/01/2020<br>05:15:00 | 22 | 11000.0 | 0.0    | 0.0      | 0.0     | 0.0   | 0.00   | 5.314  | 0.000000    |
| Katol 132kV | 11/01/2020<br>05:30:00 | 23 | 11000.0 | 0.0    | 0.0      | 0.0     | 0.0   | 0.00   | 2.964  | 0.000000    |
| Katol 132kV | 11/01/2020<br>05:45:00 | 24 | 11000.0 | 0.0    | 0.0      | 0.0     | 0.0   | 0.00   | 2.103  | 0.000000    |
| Katol 132kV | 11/01/2020<br>06:00:00 | 25 | 11000.0 | 0.0    | 0.0      | 0.0     | 0.0   | 0.00   | 3.636  | 0.000000    |
| Katol 132kV | 11/01/2020<br>06:15:00 | 26 | 11000.0 | 0.0    | 0.0      | 0.0     | 0.0   | 0.00   | 2.964  | 0.000000    |
| Katol 132kV | 11/01/2020<br>06:30:00 | 27 | 11000.0 | 0.0    | 3.85     | 3.85    | 0.03  | 0.00   | 4.105  | 0.000000    |
| Katol 132kV | 11/01/2020<br>06:45:00 | 28 | 11000.0 | 70.0   | 71.05    | 1.05    | 0.01  | 0.00   | 5.650  | 0.000000    |
| Katol 132kV | 11/01/2020<br>07:00:00 | 29 | 11000.0 | 267.5  | 309.6    | 42.1    | 0.38  | 0.00   | 3.300  | 0.000000    |
| Katol 132kV | 11/01/2020<br>07:15:00 | 30 | 11000.0 | 700.0  | 789.0    | 89.0    | 0.81  | 0.00   | 5.314  | 0.000000    |
| Katol 132kV | 11/01/2020<br>07:30:00 | 31 | 11000.0 | 1167.5 | 1420.5   | 253.0   | 2.3   | 0.00   | 2.964  | 0.000000    |
| Katol 132kV | 11/01/2020<br>07:45:00 | 32 | 11000.0 | 1665.0 | 2138.3   | 473.3   | 4.3   | 0.00   | 2.103  | 0.000000    |
| Katol 132kV | 11/01/2020<br>08:00:00 | 33 | 11000.0 | 2757.5 | 3247.95  | 490.45  | 4.46  | 0.00   | -1.577 | -17.572427  |
| Katol 132kV | 11/01/2020<br>08:15:00 | 34 | 11000.0 | 4325.0 | 5142.6   | 817.6   | 7.43  | 0.00   | 3.300  | 0.000000    |
| Katol 132kV | 11/01/2020<br>08:30:00 | 35 | 11000.0 | 5395.0 | 6543.4   | 1148.4  | 10.44 | 0.00   | 2.116  | 0.000000    |
| Katol 132kV | 11/01/2020<br>08:45:00 | 36 | 11000.0 | 6167.5 | 7490.65  | 1323.15 | 12.03 | 0.00   | 2.964  | 0.000000    |
| Katol 132kV | 11/01/2020<br>09:00:00 | 37 | 11000.0 | 6790.0 | 8283.55  | 1493.55 | 13.58 | 0.00   | 6.681  | 0.000000    |
| Katol 132kV | 11/01/2020<br>09:15:00 | 38 | 11000.0 | 7350.0 | 8964.8   | 1614.8  | 14.68 | 0.00   | 6.657  | 0.000000    |
| Katol 132kV | 11/01/2020<br>09:30:00 | 39 | 11000.0 | 7860.0 | 9565.9   | 1705.9  | 15.51 | 27.95  | -6.322 | -879.532719 |
| Katol 132kV | 11/01/2020<br>09:45:00 | 40 | 11000.0 | 8307.5 | 10131.15 | 1823.65 | 16.58 | 86.83  | -2.103 | -131.111368 |
| Katol 132kV | 11/01/2020<br>10:00:00 | 41 | 11000.0 | 8672.5 | 10603.95 | 1931.45 | 17.56 | 140.73 | 0.526  | 0.000000    |
| Katol 132kV | 11/01/2020<br>10:15:00 | 42 | 11000.0 | 8225.0 | 10986.55 | 2761.55 | 25.11 | 561.55 | 0.526  | 0.000000    |

|             |                        |    |         |         |          |         |       |        |        |             |
|-------------|------------------------|----|---------|---------|----------|---------|-------|--------|--------|-------------|
| Katol 132kV | 11/01/2020<br>10:30:00 | 43 | 11000.0 | 8697.5  | 11190.5  | 2493.0  | 22.66 | 421.50 | 0.000  | 0.000000    |
| Katol 132kV | 11/01/2020<br>10:45:00 | 44 | 11000.0 | 9180.0  | 11297.75 | 2117.75 | 19.25 | 233.88 | 0.000  | 0.000000    |
| Katol 132kV | 11/01/2020<br>11:00:00 | 45 | 11000.0 | 9577.5  | 11367.3  | 1789.8  | 16.27 | 69.90  | 0.000  | 0.000000    |
| Katol 132kV | 11/01/2020<br>11:15:00 | 46 | 11000.0 | 9630.0  | 11398.6  | 1768.6  | 16.08 | 59.30  | -2.964 | -199.517213 |
| Katol 132kV | 11/01/2020<br>11:30:00 | 47 | 11000.0 | 9645.0  | 11406.7  | 1761.7  | 16.02 | 55.85  | -4.307 | -431.362101 |
| Katol 132kV | 11/01/2020<br>11:45:00 | 48 | 11000.0 | 9620.0  | 11406.2  | 1786.2  | 16.24 | 68.10  | -3.300 | -250.871768 |
| Katol 132kV | 11/01/2020<br>12:00:00 | 49 | 11000.0 | 9612.5  | 11398.75 | 1786.25 | 16.24 | 68.13  | -0.526 | -7.038596   |
| Katol 132kV | 11/01/2020<br>12:15:00 | 50 | 11000.0 | 9615.0  | 11396.35 | 1781.35 | 16.19 | 65.68  | -2.103 | -9.545367   |
| Katol 132kV | 11/01/2020<br>12:30:00 | 51 | 11000.0 | 9713.67 | 11385.75 | 1672.08 | 15.2  | 11.04  | -2.629 | -113.923576 |
| Katol 132kV | 11/01/2020<br>12:45:00 | 52 | 11000.0 | 9673.27 | 11374.15 | 1700.88 | 15.46 | 25.44  | -2.629 | -222.057378 |
| Katol 132kV | 11/01/2020<br>13:00:00 | 53 | 11000.0 | 9547.02 | 11354.75 | 1807.73 | 16.43 | 78.87  | 0.000  | 0.000000    |
| Katol 132kV | 11/01/2020<br>13:15:00 | 54 | 11000.0 | 9698.0  | 11308.45 | 1610.45 | 14.64 | 0.00   | -2.103 | -185.571238 |
| Katol 132kV | 11/01/2020<br>13:30:00 | 55 | 11000.0 | 9399.0  | 11165.3  | 1766.3  | 16.06 | 58.15  | 2.629  | 0.000000    |
| Katol 132kV | 11/01/2020<br>13:45:00 | 56 | 11000.0 | 9154.6  | 10928.45 | 1773.85 | 16.13 | 61.93  | 2.103  | 0.000000    |
| Katol 132kV | 11/01/2020<br>14:00:00 | 57 | 11000.0 | 8814.0  | 10645.05 | 1831.05 | 16.65 | 90.53  | 1.051  | 0.000000    |
| Katol 132kV | 11/01/2020<br>14:15:00 | 58 | 11000.0 | 8421.4  | 10300.1  | 1878.7  | 17.08 | 114.35 | 3.300  | 0.000000    |
| Katol 132kV | 11/01/2020<br>14:30:00 | 59 | 11000.0 | 7901.4  | 9828.85  | 1927.45 | 17.52 | 138.73 | -3.636 | -169.129432 |
| Katol 132kV | 11/01/2020<br>14:45:00 | 60 | 11000.0 | 7490.6  | 9357.1   | 1866.5  | 16.97 | 108.25 | 4.979  | 0.000000    |
| Katol 132kV | 11/01/2020<br>15:00:00 | 61 | 11000.0 | 6955.0  | 8768.8   | 1813.8  | 16.49 | 81.90  | -2.964 | -396.692791 |
| Katol 132kV | 11/01/2020<br>15:15:00 | 62 | 11000.0 | 6336.2  | 8137.85  | 1801.65 | 16.38 | 75.83  | -5.314 | -21.896863  |
| Katol 132kV | 11/01/2020<br>15:30:00 | 63 | 11000.0 | 5691.4  | 7469.65  | 1778.25 | 16.17 | 64.13  | 2.964  | 0.000000    |

|             |                        |    |         |         |         |         |       |      |        |             |
|-------------|------------------------|----|---------|---------|---------|---------|-------|------|--------|-------------|
| Katol 132kV | 11/01/2020<br>15:45:00 | 64 | 11000.0 | 5655.65 | 6675.45 | 1019.8  | 9.27  | 0.00 | 4.643  | 0.000000    |
| Katol 132kV | 11/01/2020<br>16:00:00 | 65 | 11000.0 | 4680.23 | 5712.85 | 1032.62 | 9.39  | 0.00 | 2.103  | 0.000000    |
| Katol 132kV | 11/01/2020<br>16:15:00 | 66 | 11000.0 | 3481.53 | 4624.7  | 1143.17 | 10.39 | 0.00 | -2.964 | -121.437229 |
| Katol 132kV | 11/01/2020<br>16:30:00 | 67 | 11000.0 | 1977.27 | 3310.7  | 1333.43 | 12.12 | 0.00 | -2.103 | 0.000000    |
| Katol 132kV | 11/01/2020<br>16:45:00 | 68 | 11000.0 | 1157.57 | 2031.45 | 873.88  | 7.94  | 0.00 | 3.972  | 0.000000    |
| Katol 132kV | 11/01/2020<br>17:00:00 | 69 | 11000.0 | 649.3   | 1071.85 | 422.55  | 3.84  | 0.00 | -1.577 | 0.000000    |
| Katol 132kV | 11/01/2020<br>17:15:00 | 70 | 11000.0 | 235.04  | 509.7   | 274.66  | 2.5   | 0.00 | -1.577 | 0.000000    |
| Katol 132kV | 11/01/2020<br>17:30:00 | 71 | 11000.0 | 35.26   | 158.75  | 123.49  | 1.12  | 0.00 | 1.051  | 0.000000    |
| Katol 132kV | 11/01/2020<br>17:45:00 | 72 | 11000.0 | 0.0     | 20.9    | 20.9    | 0.19  | 0.00 | -2.103 | 0.000000    |
| Katol 132kV | 11/01/2020<br>18:00:00 | 73 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | -2.964 | 0.000000    |
| Katol 132kV | 11/01/2020<br>18:15:00 | 74 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | -2.629 | 0.000000    |
| Katol 132kV | 11/01/2020<br>18:30:00 | 75 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 2.103  | 0.000000    |
| Katol 132kV | 11/01/2020<br>18:45:00 | 76 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 0.526  | 0.000000    |
| Katol 132kV | 11/01/2020<br>19:00:00 | 77 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 2.103  | 0.000000    |
| Katol 132kV | 11/01/2020<br>19:15:00 | 78 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | -1.052 | 0.000000    |
| Katol 132kV | 11/01/2020<br>19:30:00 | 79 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 2.964  | 0.000000    |
| Katol 132kV | 11/01/2020<br>19:45:00 | 80 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 2.629  | 0.000000    |
| Katol 132kV | 11/01/2020<br>20:00:00 | 81 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 2.629  | 0.000000    |
| Katol 132kV | 11/01/2020<br>20:15:00 | 82 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 4.307  | 0.000000    |
| Katol 132kV | 11/01/2020<br>20:30:00 | 83 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 2.964  | 0.000000    |
| Katol 132kV | 11/01/2020<br>20:45:00 | 84 | 11000.0 | 0.0     | 0.0     | 0.0     | 0.0   | 0.00 | 2.629  | 0.000000    |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 11/01/2020<br>21:00:00 | 85 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.636  | 0.000000 |
| Katol 132kV | 11/01/2020<br>21:15:00 | 86 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.577 | 0.000000 |
| Katol 132kV | 11/01/2020<br>21:30:00 | 87 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.577 | 0.000000 |
| Katol 132kV | 11/01/2020<br>21:45:00 | 88 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.052 | 0.000000 |
| Katol 132kV | 11/01/2020<br>22:00:00 | 89 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.650 | 0.000000 |
| Katol 132kV | 11/01/2020<br>22:15:00 | 90 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.650 | 0.000000 |
| Katol 132kV | 11/01/2020<br>22:30:00 | 91 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.979  | 0.000000 |
| Katol 132kV | 11/01/2020<br>22:45:00 | 92 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.964  | 0.000000 |
| Katol 132kV | 11/01/2020<br>23:00:00 | 93 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.577  | 0.000000 |
| Katol 132kV | 11/01/2020<br>23:15:00 | 94 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.074  | 0.000000 |
| Katol 132kV | 11/01/2020<br>23:30:00 | 95 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.113  | 0.000000 |
| Katol 132kV | 11/01/2020<br>23:45:00 | 96 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.162  | 0.000000 |
| Katol 132kV | 12/01/2020<br>00:00:00 | 1  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |
| Katol 132kV | 12/01/2020<br>00:15:00 | 2  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.152 | 0.000000 |
| Katol 132kV | 12/01/2020<br>00:30:00 | 3  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.152 | 0.000000 |
| Katol 132kV | 12/01/2020<br>00:45:00 | 4  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.022 | 0.000000 |
| Katol 132kV | 12/01/2020<br>01:00:00 | 5  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.629 | 0.000000 |
| Katol 132kV | 12/01/2020<br>01:15:00 | 6  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.317 | 0.000000 |
| Katol 132kV | 12/01/2020<br>01:30:00 | 7  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.354 | 0.000000 |
| Katol 132kV | 12/01/2020<br>01:45:00 | 8  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.022 | 0.000000 |
| Katol 132kV | 12/01/2020<br>02:00:00 | 9  | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.690 | 0.000000 |

|             |                        |    |         |       |        |      |      |      |        |          |
|-------------|------------------------|----|---------|-------|--------|------|------|------|--------|----------|
| Katol 132kV | 12/01/2020<br>02:15:00 | 10 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -3.022 | 0.000000 |
| Katol 132kV | 12/01/2020<br>02:30:00 | 11 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -2.690 | 0.000000 |
| Katol 132kV | 12/01/2020<br>02:45:00 | 12 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -3.022 | 0.000000 |
| Katol 132kV | 12/01/2020<br>03:00:00 | 13 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 3.354  | 0.000000 |
| Katol 132kV | 12/01/2020<br>03:15:00 | 14 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 3.022  | 0.000000 |
| Katol 132kV | 12/01/2020<br>03:30:00 | 15 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 3.354  | 0.000000 |
| Katol 132kV | 12/01/2020<br>03:45:00 | 16 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 2.152  | 0.000000 |
| Katol 132kV | 12/01/2020<br>04:00:00 | 17 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -2.152 | 0.000000 |
| Katol 132kV | 12/01/2020<br>04:15:00 | 18 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -3.022 | 0.000000 |
| Katol 132kV | 12/01/2020<br>04:30:00 | 19 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 1.076  | 0.000000 |
| Katol 132kV | 12/01/2020<br>04:45:00 | 20 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -3.022 | 0.000000 |
| Katol 132kV | 12/01/2020<br>05:00:00 | 21 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 3.686  | 0.000000 |
| Katol 132kV | 12/01/2020<br>05:15:00 | 22 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 3.686  | 0.000000 |
| Katol 132kV | 12/01/2020<br>05:30:00 | 23 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -1.614 | 0.000000 |
| Katol 132kV | 12/01/2020<br>05:45:00 | 24 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -0.496 | 0.000000 |
| Katol 132kV | 12/01/2020<br>06:00:00 | 25 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 12/01/2020<br>06:15:00 | 26 | 11000.0 | 0.0   | 0.0    | 0.0  | 0.0  | 0.00 | -0.430 | 0.000000 |
| Katol 132kV | 12/01/2020<br>06:30:00 | 27 | 11000.0 | 0.0   | 3.6    | 3.6  | 0.03 | 0.00 | -2.152 | 0.000000 |
| Katol 132kV | 12/01/2020<br>06:45:00 | 28 | 11000.0 | 70.0  | 65.3   | -4.7 | 0.04 | 0.00 | 4.681  | 0.000000 |
| Katol 132kV | 12/01/2020<br>07:00:00 | 29 | 11000.0 | 267.5 | 275.65 | 8.15 | 0.07 | 0.00 | 1.614  | 0.000000 |
| Katol 132kV | 12/01/2020<br>07:15:00 | 30 | 11000.0 | 700.0 | 708.45 | 8.45 | 0.08 | 0.00 | 3.838  | 0.000000 |

|             |                        |    |         |          |          |         |       |       |        |             |
|-------------|------------------------|----|---------|----------|----------|---------|-------|-------|--------|-------------|
| Katol 132kV | 12/01/2020<br>07:30:00 | 31 | 11000.0 | 1167.5   | 1282.45  | 114.95  | 1.05  | 0.00  | 3.022  | 0.000000    |
| Katol 132kV | 12/01/2020<br>07:45:00 | 32 | 11000.0 | 1665.0   | 1954.8   | 289.8   | 2.63  | 0.00  | 2.690  | 0.000000    |
| Katol 132kV | 12/01/2020<br>08:00:00 | 33 | 11000.0 | 2757.5   | 2994.2   | 236.7   | 2.15  | 0.00  | -2.690 | -126.448171 |
| Katol 132kV | 12/01/2020<br>08:15:00 | 34 | 11000.0 | 4325.0   | 4700.1   | 375.1   | 3.41  | 0.00  | -4.018 | -184.739679 |
| Katol 132kV | 12/01/2020<br>08:30:00 | 35 | 11000.0 | 5395.0   | 6001.85  | 606.85  | 5.52  | 0.00  | -2.690 | -28.821885  |
| Katol 132kV | 12/01/2020<br>08:45:00 | 36 | 11000.0 | 6167.5   | 6973.65  | 806.15  | 7.33  | 0.00  | 3.022  | 0.000000    |
| Katol 132kV | 12/01/2020<br>09:00:00 | 37 | 11000.0 | 6790.0   | 7772.0   | 982.0   | 8.93  | 0.00  | -3.354 | -126.262867 |
| Katol 132kV | 12/01/2020<br>09:15:00 | 38 | 11000.0 | 7350.0   | 8463.85  | 1113.85 | 10.13 | 0.00  | -4.350 | -40.276601  |
| Katol 132kV | 12/01/2020<br>09:30:00 | 39 | 11000.0 | 7860.0   | 9079.65  | 1219.65 | 11.09 | 0.00  | 2.152  | 0.000000    |
| Katol 132kV | 12/01/2020<br>09:45:00 | 40 | 11000.0 | 8307.5   | 9612.35  | 1304.85 | 11.86 | 0.00  | -2.690 | -73.707348  |
| Katol 132kV | 12/01/2020<br>10:00:00 | 41 | 11000.0 | 8672.5   | 10065.15 | 1392.65 | 12.66 | 0.00  | -3.354 | -51.519387  |
| Katol 132kV | 12/01/2020<br>10:15:00 | 42 | 11000.0 | 9022.5   | 10432.4  | 1409.9  | 12.82 | 0.00  | -3.686 | -74.509225  |
| Katol 132kV | 12/01/2020<br>10:30:00 | 43 | 11000.0 | 9270.0   | 10719.9  | 1449.9  | 13.18 | 0.00  | -1.614 | -48.710169  |
| Katol 132kV | 12/01/2020<br>10:45:00 | 44 | 11000.0 | 9495.0   | 10993.5  | 1498.5  | 13.62 | 0.00  | 3.686  | 0.000000    |
| Katol 132kV | 12/01/2020<br>11:00:00 | 45 | 11000.0 | 9592.5   | 11154.95 | 1562.45 | 14.2  | 0.00  | -3.354 | -232.551680 |
| Katol 132kV | 12/01/2020<br>11:15:00 | 46 | 11000.0 | 9630.0   | 11240.8  | 1610.8  | 14.64 | 0.00  | -5.450 | -709.254147 |
| Katol 132kV | 12/01/2020<br>11:30:00 | 47 | 11000.0 | 9645.0   | 11280.9  | 1635.9  | 14.87 | 0.00  | -6.009 | -311.895904 |
| Katol 132kV | 12/01/2020<br>11:45:00 | 48 | 11000.0 | 9620.0   | 11333.6  | 1713.6  | 15.58 | 31.80 | 2.690  | 0.000000    |
| Katol 132kV | 12/01/2020<br>12:00:00 | 49 | 11000.0 | 9612.5   | 11343.95 | 1731.45 | 15.74 | 40.73 | 3.686  | 0.000000    |
| Katol 132kV | 12/01/2020<br>12:15:00 | 50 | 11000.0 | 10095.75 | 11341.1  | 1245.35 | 11.32 | 0.00  | -5.345 | -146.738224 |
| Katol 132kV | 12/01/2020<br>12:30:00 | 51 | 11000.0 | 10098.38 | 11325.75 | 1227.37 | 11.16 | 0.00  | -3.022 | -117.776399 |

|             |                        |    |         |          |          |         |       |       |        |             |
|-------------|------------------------|----|---------|----------|----------|---------|-------|-------|--------|-------------|
| Katol 132kV | 12/01/2020<br>12:45:00 | 52 | 11000.0 | 10056.37 | 11288.2  | 1231.83 | 11.2  | 0.00  | -5.345 | -447.210691 |
| Katol 132kV | 12/01/2020<br>13:00:00 | 53 | 11000.0 | 9925.13  | 11231.6  | 1306.47 | 11.88 | 0.00  | -3.999 | -381.785921 |
| Katol 132kV | 12/01/2020<br>13:15:00 | 54 | 11000.0 | 9791.25  | 11084.6  | 1293.35 | 11.76 | 0.00  | -4.350 | -51.985484  |
| Katol 132kV | 12/01/2020<br>13:30:00 | 55 | 11000.0 | 9489.38  | 10969.8  | 1480.42 | 13.46 | 0.00  | -1.076 | -48.017064  |
| Katol 132kV | 12/01/2020<br>13:45:00 | 56 | 11000.0 | 9242.63  | 10799.55 | 1556.92 | 14.15 | 0.00  | -2.690 | -94.148843  |
| Katol 132kV | 12/01/2020<br>14:00:00 | 57 | 11000.0 | 8898.75  | 10483.15 | 1584.4  | 14.4  | 0.00  | -0.538 | -43.321827  |
| Katol 132kV | 12/01/2020<br>14:15:00 | 58 | 11000.0 | 8502.37  | 10100.1  | 1597.73 | 14.52 | 0.00  | -2.152 | -244.112865 |
| Katol 132kV | 12/01/2020<br>14:30:00 | 59 | 11000.0 | 7977.38  | 9686.6   | 1709.22 | 15.54 | 29.61 | -2.690 | -92.662273  |
| Katol 132kV | 12/01/2020<br>14:45:00 | 60 | 11000.0 | 7562.62  | 9150.8   | 1588.18 | 14.44 | 0.00  | -1.076 | -31.134184  |
| Katol 132kV | 12/01/2020<br>15:00:00 | 61 | 11000.0 | 7021.87  | 8581.9   | 1560.03 | 14.18 | 0.00  | 0.000  | 0.000000    |
| Katol 132kV | 12/01/2020<br>15:15:00 | 62 | 11000.0 | 6397.12  | 7957.2   | 1560.08 | 14.18 | 0.00  | -2.690 | -215.709244 |
| Katol 132kV | 12/01/2020<br>15:30:00 | 63 | 11000.0 | 5746.13  | 7249.4   | 1503.27 | 13.67 | 0.00  | -3.022 | -149.824056 |
| Katol 132kV | 12/01/2020<br>15:45:00 | 64 | 11000.0 | 5053.12  | 6460.55  | 1407.43 | 12.79 | 0.00  | -3.686 | -239.221170 |
| Katol 132kV | 12/01/2020<br>16:00:00 | 65 | 11000.0 | 5521.73  | 5575.45  | 53.72   | 0.49  | 0.00  | -3.737 | -45.749233  |
| Katol 132kV | 12/01/2020<br>16:15:00 | 66 | 11000.0 | 4436.05  | 4488.4   | 52.35   | 0.48  | 0.00  | -5.786 | -69.096766  |
| Katol 132kV | 12/01/2020<br>16:30:00 | 67 | 11000.0 | 2830.22  | 3171.45  | 341.23  | 3.1   | 0.00  | -4.350 | -193.989177 |
| Katol 132kV | 12/01/2020<br>16:45:00 | 68 | 11000.0 | 1650.0   | 1940.65  | 290.65  | 2.64  | 0.00  | -1.614 | -37.344247  |
| Katol 132kV | 12/01/2020<br>17:00:00 | 69 | 11000.0 | 1450.0   | 1007.2   | -442.8  | 4.03  | 0.00  | 0.000  | 0.000000    |
| Katol 132kV | 12/01/2020<br>17:15:00 | 70 | 11000.0 | 1075.0   | 486.8    | -588.2  | 5.35  | 0.00  | 2.690  | 152.493069  |
| Katol 132kV | 12/01/2020<br>17:30:00 | 71 | 11000.0 | 525.0    | 162.3    | -362.7  | 3.3   | 0.00  | -3.022 | 0.000000    |
| Katol 132kV | 12/01/2020<br>17:45:00 | 72 | 11000.0 | 0.0      | 23.1     | 23.1    | 0.21  | 0.00  | -2.152 | 0.000000    |

|             |                        |    |         |     |     |     |     |      |        |          |
|-------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV | 12/01/2020<br>18:00:00 | 73 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.538 | 0.000000 |
| Katol 132kV | 12/01/2020<br>18:15:00 | 74 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.350 | 0.000000 |
| Katol 132kV | 12/01/2020<br>18:30:00 | 75 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.690  | 0.000000 |
| Katol 132kV | 12/01/2020<br>18:45:00 | 76 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |
| Katol 132kV | 12/01/2020<br>19:00:00 | 77 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.686  | 0.000000 |
| Katol 132kV | 12/01/2020<br>19:15:00 | 78 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.690  | 0.000000 |
| Katol 132kV | 12/01/2020<br>19:30:00 | 79 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.022 | 0.000000 |
| Katol 132kV | 12/01/2020<br>19:45:00 | 80 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.781 | 0.000000 |
| Katol 132kV | 12/01/2020<br>20:00:00 | 81 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.021 | 0.000000 |
| Katol 132kV | 12/01/2020<br>20:15:00 | 82 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.018 | 0.000000 |
| Katol 132kV | 12/01/2020<br>20:30:00 | 83 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.354 | 0.000000 |
| Katol 132kV | 12/01/2020<br>20:45:00 | 84 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.614 | 0.000000 |
| Katol 132kV | 12/01/2020<br>21:00:00 | 85 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.350 | 0.000000 |
| Katol 132kV | 12/01/2020<br>21:15:00 | 86 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.686 | 0.000000 |
| Katol 132kV | 12/01/2020<br>21:30:00 | 87 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.614 | 0.000000 |
| Katol 132kV | 12/01/2020<br>21:45:00 | 88 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Katol 132kV | 12/01/2020<br>22:00:00 | 89 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.354 | 0.000000 |
| Katol 132kV | 12/01/2020<br>22:15:00 | 90 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.350  | 0.000000 |
| Katol 132kV | 12/01/2020<br>22:30:00 | 91 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.215  | 0.000000 |
| Katol 132kV | 12/01/2020<br>22:45:00 | 92 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |
| Katol 132kV | 12/01/2020<br>23:00:00 | 93 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |

|              |                        |    |         |     |     |     |     |      |        |          |
|--------------|------------------------|----|---------|-----|-----|-----|-----|------|--------|----------|
| Katol 132kV  | 12/01/2020<br>23:15:00 | 94 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.152  | 0.000000 |
| Katol 132kV  | 12/01/2020<br>23:30:00 | 95 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.152  | 0.000000 |
| Katol 132kV  | 12/01/2020<br>23:45:00 | 96 | 11000.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.152  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>00:00:00 | 1  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.903  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>00:15:00 | 2  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>00:30:00 | 3  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>00:45:00 | 4  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.984 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>01:00:00 | 5  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.541 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>01:15:00 | 6  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.222  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>01:30:00 | 7  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.541  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>01:45:00 | 8  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.352  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>02:00:00 | 9  | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.747  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>02:15:00 | 10 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.581  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>02:30:00 | 11 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.323 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>02:45:00 | 12 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.323  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>03:00:00 | 13 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.323  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>03:15:00 | 14 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.742 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>03:30:00 | 15 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.222  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>03:45:00 | 16 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.541  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>04:00:00 | 17 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.496  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>04:15:00 | 18 | 0.0     | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.222  | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 06/01/2020<br>04:30:00 | 19 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 3.859  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>04:45:00 | 20 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 4.815  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>05:00:00 | 21 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 3.859  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>05:15:00 | 22 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 6.407  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>05:30:00 | 23 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 6.496  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>05:45:00 | 24 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 7.492  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>06:00:00 | 25 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -5.452 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>06:15:00 | 26 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -6.089 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>06:30:00 | 27 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -7.044 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>06:45:00 | 28 | 0.0 | 0.0 | 1.0   | 1.0   | 0.0 | 0.00 | 7.682  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>07:00:00 | 29 | 0.0 | 0.0 | 17.0  | 17.0  | 0.0 | 0.00 | -3.859 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>07:15:00 | 30 | 0.0 | 0.0 | 52.0  | 52.0  | 0.0 | 0.00 | 4.815  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>07:30:00 | 31 | 0.0 | 0.0 | 109.0 | 109.0 | 0.0 | 0.00 | 4.178  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>07:45:00 | 32 | 0.0 | 0.0 | 185.0 | 185.0 | 0.0 | 0.00 | -3.540 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>08:00:00 | 33 | 0.0 | 0.0 | 263.0 | 263.0 | 0.0 | 0.00 | -3.859 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>08:15:00 | 34 | 0.0 | 0.0 | 345.0 | 345.0 | 0.0 | 0.00 | -5.452 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>08:30:00 | 35 | 0.0 | 0.0 | 430.0 | 430.0 | 0.0 | 0.00 | 4.178  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>08:45:00 | 36 | 0.0 | 0.0 | 561.0 | 561.0 | 0.0 | 0.00 | -3.859 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>09:00:00 | 37 | 0.0 | 0.0 | 650.0 | 650.0 | 0.0 | 0.00 | -6.407 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>09:15:00 | 38 | 0.0 | 0.0 | 732.0 | 732.0 | 0.0 | 0.00 | -8.000 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>09:30:00 | 39 | 0.0 | 0.0 | 807.0 | 807.0 | 0.0 | 0.00 | -5.770 | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 06/01/2020<br>09:45:00 | 40 | 0.0 | 0.0 | 875.0  | 875.0  | 0.0 | 0.00 | 3.222  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>10:00:00 | 41 | 0.0 | 0.0 | 936.0  | 936.0  | 0.0 | 0.00 | -2.903 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>10:15:00 | 42 | 0.0 | 0.0 | 989.0  | 989.0  | 0.0 | 0.00 | -3.222 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>10:30:00 | 43 | 0.0 | 0.0 | 1033.0 | 1033.0 | 0.0 | 0.00 | 4.815  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>10:45:00 | 44 | 0.0 | 0.0 | 1075.0 | 1075.0 | 0.0 | 0.00 | 4.496  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>11:00:00 | 45 | 0.0 | 0.0 | 1110.0 | 1110.0 | 0.0 | 0.00 | 16.000 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>11:15:00 | 46 | 0.0 | 0.0 | 1137.0 | 1137.0 | 0.0 | 0.00 | 5.133  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>11:30:00 | 47 | 0.0 | 0.0 | 1155.0 | 1155.0 | 0.0 | 0.00 | 1.182  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>11:45:00 | 48 | 0.0 | 0.0 | 1166.0 | 1166.0 | 0.0 | 0.00 | 6.308  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>12:00:00 | 49 | 0.0 | 0.0 | 1167.0 | 1167.0 | 0.0 | 0.00 | 6.598  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>12:15:00 | 50 | 0.0 | 0.0 | 1159.0 | 1159.0 | 0.0 | 0.00 | 5.431  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>12:30:00 | 51 | 0.0 | 0.0 | 1153.0 | 1153.0 | 0.0 | 0.00 | 3.540  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>12:45:00 | 52 | 0.0 | 0.0 | 1136.0 | 1136.0 | 0.0 | 0.00 | -2.903 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>13:00:00 | 53 | 0.0 | 0.0 | 1115.0 | 1115.0 | 0.0 | 0.00 | -1.161 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>13:15:00 | 54 | 0.0 | 0.0 | 1084.0 | 1084.0 | 0.0 | 0.00 | 3.859  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>13:30:00 | 55 | 0.0 | 0.0 | 1039.0 | 1039.0 | 0.0 | 0.00 | -6.407 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>13:45:00 | 56 | 0.0 | 0.0 | 993.0  | 993.0  | 0.0 | 0.00 | 5.452  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>14:00:00 | 57 | 0.0 | 0.0 | 943.0  | 943.0  | 0.0 | 0.00 | 5.452  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>14:15:00 | 58 | 0.0 | 0.0 | 893.0  | 893.0  | 0.0 | 0.00 | 16.000 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>14:30:00 | 59 | 0.0 | 0.0 | 823.0  | 823.0  | 0.0 | 0.00 | 6.035  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>14:45:00 | 60 | 0.0 | 0.0 | 747.0  | 747.0  | 0.0 | 0.00 | 3.949  | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 06/01/2020<br>15:00:00 | 61 | 0.0 | 0.0 | 661.0 | 661.0 | 0.0 | 0.00 | 3.367  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>15:15:00 | 62 | 0.0 | 0.0 | 569.0 | 569.0 | 0.0 | 0.00 | 3.904  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>15:30:00 | 63 | 0.0 | 0.0 | 474.0 | 474.0 | 0.0 | 0.00 | 4.482  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>15:45:00 | 64 | 0.0 | 0.0 | 372.0 | 372.0 | 0.0 | 0.00 | 4.225  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>16:00:00 | 65 | 0.0 | 0.0 | 273.0 | 273.0 | 0.0 | 0.00 | 2.895  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>16:15:00 | 66 | 0.0 | 0.0 | 172.0 | 172.0 | 0.0 | 0.00 | 6.089  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>16:30:00 | 67 | 0.0 | 0.0 | 95.0  | 95.0  | 0.0 | 0.00 | -8.000 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>16:45:00 | 68 | 0.0 | 0.0 | 47.0  | 47.0  | 0.0 | 0.00 | -4.178 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>17:00:00 | 69 | 0.0 | 0.0 | 29.0  | 29.0  | 0.0 | 0.00 | 1.742  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>17:15:00 | 70 | 0.0 | 0.0 | 15.0  | 15.0  | 0.0 | 0.00 | 2.903  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>17:30:00 | 71 | 0.0 | 0.0 | 2.0   | 2.0   | 0.0 | 0.00 | -4.178 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>17:45:00 | 72 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.323 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>18:00:00 | 73 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.903 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>18:15:00 | 74 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 1.161  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>18:30:00 | 75 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.903  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>18:45:00 | 76 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.903  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>19:00:00 | 77 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.161 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>19:15:00 | 78 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -4.178 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>19:30:00 | 79 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.323 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>19:45:00 | 80 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -4.178 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>20:00:00 | 81 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -4.496 | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 06/01/2020<br>20:15:00 | 82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.770 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>20:30:00 | 83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.770  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>20:45:00 | 84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.178  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>21:00:00 | 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.222  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>21:15:00 | 86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.742 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>21:30:00 | 87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>21:45:00 | 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.161  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>22:00:00 | 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.815  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>22:15:00 | 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.859  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>22:30:00 | 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.742  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>22:45:00 | 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.323 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>23:00:00 | 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.903 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>23:15:00 | 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.323  | 0.000000 |
| Mansar 132kV | 06/01/2020<br>23:30:00 | 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.222 | 0.000000 |
| Mansar 132kV | 06/01/2020<br>23:45:00 | 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.323  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>00:00:00 | 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.549 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>00:15:00 | 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.647 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>00:30:00 | 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.073 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>00:45:00 | 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.744 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>01:00:00 | 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.058 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>01:15:00 | 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.058 | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 07/01/2020<br>01:30:00 | 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.401 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>01:45:00 | 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>02:00:00 | 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.073  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>02:15:00 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.073  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>02:30:00 | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.401  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>02:45:00 | 12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.745  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>03:00:00 | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>03:15:00 | 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.196  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>03:30:00 | 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>03:45:00 | 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.098  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>04:00:00 | 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>04:15:00 | 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.210  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>04:30:00 | 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>04:45:00 | 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.098 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>05:00:00 | 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.744 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>05:15:00 | 22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>05:30:00 | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.073  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>05:45:00 | 24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.730  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>06:00:00 | 25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.372 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>06:15:00 | 26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.556  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>06:30:00 | 27 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 7.148  | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 07/01/2020<br>06:45:00 | 28 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 7.821  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>07:00:00 | 29 | 0.0 | 0.0 | 15.0   | 15.0   | 0.0 | 0.00 | 5.372  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>07:15:00 | 30 | 0.0 | 0.0 | 45.0   | 45.0   | 0.0 | 0.00 | 16.000 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>07:30:00 | 31 | 0.0 | 0.0 | 84.0   | 84.0   | 0.0 | 0.00 | 9.296  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>07:45:00 | 32 | 0.0 | 0.0 | 159.0  | 159.0  | 0.0 | 0.00 | 9.794  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>08:00:00 | 33 | 0.0 | 0.0 | 265.0  | 265.0  | 0.0 | 0.00 | 3.593  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>08:15:00 | 34 | 0.0 | 0.0 | 338.0  | 338.0  | 0.0 | 0.00 | 3.401  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>08:30:00 | 35 | 0.0 | 0.0 | 315.0  | 315.0  | 0.0 | 0.00 | 3.245  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>08:45:00 | 36 | 0.0 | 0.0 | 303.0  | 303.0  | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>09:00:00 | 37 | 0.0 | 0.0 | 399.0  | 399.0  | 0.0 | 0.00 | 2.745  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>09:15:00 | 38 | 0.0 | 0.0 | 323.0  | 323.0  | 0.0 | 0.00 | 4.715  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>09:30:00 | 39 | 0.0 | 0.0 | 529.0  | 529.0  | 0.0 | 0.00 | 3.981  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>09:45:00 | 40 | 0.0 | 0.0 | 601.0  | 601.0  | 0.0 | 0.00 | 3.730  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>10:00:00 | 41 | 0.0 | 0.0 | 307.0  | 307.0  | 0.0 | 0.00 | 1.780  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>10:15:00 | 42 | 0.0 | 0.0 | 283.0  | 283.0  | 0.0 | 0.00 | 5.643  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>10:30:00 | 43 | 0.0 | 0.0 | 438.0  | 438.0  | 0.0 | 0.00 | 4.976  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>10:45:00 | 44 | 0.0 | 0.0 | 716.0  | 716.0  | 0.0 | 0.00 | 4.415  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>11:00:00 | 45 | 0.0 | 0.0 | 752.0  | 752.0  | 0.0 | 0.00 | 4.476  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>11:15:00 | 46 | 0.0 | 0.0 | 961.0  | 961.0  | 0.0 | 0.00 | 4.826  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>11:30:00 | 47 | 0.0 | 0.0 | 1046.0 | 1046.0 | 0.0 | 0.00 | 2.289  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>11:45:00 | 48 | 0.0 | 0.0 | 1002.0 | 1002.0 | 0.0 | 0.00 | -0.549 | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 07/01/2020<br>12:00:00 | 49 | 0.0 | 0.0 | 1010.0 | 1010.0 | 0.0 | 0.00 | 4.727  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>12:15:00 | 50 | 0.0 | 0.0 | 1023.0 | 1023.0 | 0.0 | 0.00 | 4.777  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>12:30:00 | 51 | 0.0 | 0.0 | 1002.0 | 1002.0 | 0.0 | 0.00 | 4.798  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>12:45:00 | 52 | 0.0 | 0.0 | 989.0  | 989.0  | 0.0 | 0.00 | -3.401 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>13:00:00 | 53 | 0.0 | 0.0 | 965.0  | 965.0  | 0.0 | 0.00 | -2.431 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>13:15:00 | 54 | 0.0 | 0.0 | 920.0  | 920.0  | 0.0 | 0.00 | -4.387 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>13:30:00 | 55 | 0.0 | 0.0 | 884.0  | 884.0  | 0.0 | 0.00 | -3.401 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>13:45:00 | 56 | 0.0 | 0.0 | 667.0  | 667.0  | 0.0 | 0.00 | -5.044 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>14:00:00 | 57 | 0.0 | 0.0 | 495.0  | 495.0  | 0.0 | 0.00 | 4.215  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>14:15:00 | 58 | 0.0 | 0.0 | 639.0  | 639.0  | 0.0 | 0.00 | 9.552  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>14:30:00 | 59 | 0.0 | 0.0 | 472.0  | 472.0  | 0.0 | 0.00 | 6.358  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>14:45:00 | 60 | 0.0 | 0.0 | 360.0  | 360.0  | 0.0 | 0.00 | 2.744  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>15:00:00 | 61 | 0.0 | 0.0 | 605.0  | 605.0  | 0.0 | 0.00 | -3.073 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>15:15:00 | 62 | 0.0 | 0.0 | 479.0  | 479.0  | 0.0 | 0.00 | -4.058 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>15:30:00 | 63 | 0.0 | 0.0 | 368.0  | 368.0  | 0.0 | 0.00 | -4.831 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>15:45:00 | 64 | 0.0 | 0.0 | 315.0  | 315.0  | 0.0 | 0.00 | -5.372 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>16:00:00 | 65 | 0.0 | 0.0 | 256.0  | 256.0  | 0.0 | 0.00 | 2.196  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>16:15:00 | 66 | 0.0 | 0.0 | 206.0  | 206.0  | 0.0 | 0.00 | -3.401 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>16:30:00 | 67 | 0.0 | 0.0 | 136.0  | 136.0  | 0.0 | 0.00 | 4.738  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>16:45:00 | 68 | 0.0 | 0.0 | 74.0   | 74.0   | 0.0 | 0.00 | 7.343  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>17:00:00 | 69 | 0.0 | 0.0 | 40.0   | 40.0   | 0.0 | 0.00 | 1.647  | 0.000000 |

|              |                        |    |     |     |      |      |     |      |        |          |
|--------------|------------------------|----|-----|-----|------|------|-----|------|--------|----------|
| Mansar 132kV | 07/01/2020<br>17:15:00 | 70 | 0.0 | 0.0 | 10.0 | 10.0 | 0.0 | 0.00 | 2.744  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>17:30:00 | 71 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.401  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>17:45:00 | 72 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.745 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>18:00:00 | 73 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.073 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>18:15:00 | 74 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -5.372 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>18:30:00 | 75 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.401  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>18:45:00 | 76 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.401 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>19:00:00 | 77 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.730 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>19:15:00 | 78 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -4.715 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>19:30:00 | 79 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -4.058 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>19:45:00 | 80 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.210 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>20:00:00 | 81 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.348 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>20:15:00 | 82 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 4.387  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>20:30:00 | 83 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.816  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>20:45:00 | 84 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.401  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>21:00:00 | 85 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -4.058 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>21:15:00 | 86 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 1.647  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>21:30:00 | 87 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 2.196  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>21:45:00 | 88 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.196 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>22:00:00 | 89 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.257 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>22:15:00 | 90 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -1.900 | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 07/01/2020<br>22:30:00 | 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.098 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>22:45:00 | 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.647 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>23:00:00 | 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.401 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>23:15:00 | 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.647  | 0.000000 |
| Mansar 132kV | 07/01/2020<br>23:30:00 | 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.196 | 0.000000 |
| Mansar 132kV | 07/01/2020<br>23:45:00 | 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.549 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>00:00:00 | 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>00:15:00 | 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>00:30:00 | 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>00:45:00 | 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.424 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>01:00:00 | 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.170 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>01:15:00 | 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.761 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>01:30:00 | 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.665 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>01:45:00 | 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.665 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>02:00:00 | 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.110 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>02:15:00 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.347 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>02:30:00 | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>02:45:00 | 12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>03:00:00 | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.428 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>03:15:00 | 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>03:30:00 | 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |

|              |                        |    |     |     |      |      |     |      |        |          |
|--------------|------------------------|----|-----|-----|------|------|-----|------|--------|----------|
| Mansar 132kV | 08/01/2020<br>03:45:00 | 16 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.775 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>04:00:00 | 17 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>04:15:00 | 18 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -1.665 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>04:30:00 | 19 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.220 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>04:45:00 | 20 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.775 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>05:00:00 | 21 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -1.110 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>05:15:00 | 22 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 2.775  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>05:30:00 | 23 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.428 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>05:45:00 | 24 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.775 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>06:00:00 | 25 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.220 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>06:15:00 | 26 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 2.220  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>06:30:00 | 27 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 5.387  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>06:45:00 | 28 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -4.734 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>07:00:00 | 29 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -4.407 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>07:15:00 | 30 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 5.061  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>07:30:00 | 31 | 0.0 | 0.0 | 11.0 | 11.0 | 0.0 | 0.00 | 5.714  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>07:45:00 | 32 | 0.0 | 0.0 | 8.0  | 8.0  | 0.0 | 0.00 | 5.061  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>08:00:00 | 33 | 0.0 | 0.0 | 12.0 | 12.0 | 0.0 | 0.00 | 2.775  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>08:15:00 | 34 | 0.0 | 0.0 | 42.0 | 42.0 | 0.0 | 0.00 | 2.775  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>08:30:00 | 35 | 0.0 | 0.0 | 66.0 | 66.0 | 0.0 | 0.00 | 5.387  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>08:45:00 | 36 | 0.0 | 0.0 | 83.0 | 83.0 | 0.0 | 0.00 | 16.000 | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 08/01/2020<br>09:00:00 | 37 | 0.0 | 0.0 | 105.0 | 105.0 | 0.0 | 0.00 | 7.673  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>09:15:00 | 38 | 0.0 | 0.0 | 69.0  | 69.0  | 0.0 | 0.00 | 7.673  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>09:30:00 | 39 | 0.0 | 0.0 | 212.0 | 212.0 | 0.0 | 0.00 | 3.101  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>09:45:00 | 40 | 0.0 | 0.0 | 236.0 | 236.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>10:00:00 | 41 | 0.0 | 0.0 | 363.0 | 363.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>10:15:00 | 42 | 0.0 | 0.0 | 382.0 | 382.0 | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>10:30:00 | 43 | 0.0 | 0.0 | 191.0 | 191.0 | 0.0 | 0.00 | -1.665 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>10:45:00 | 44 | 0.0 | 0.0 | 226.0 | 226.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>11:00:00 | 45 | 0.0 | 0.0 | 167.0 | 167.0 | 0.0 | 0.00 | -1.486 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>11:15:00 | 46 | 0.0 | 0.0 | 186.0 | 186.0 | 0.0 | 0.00 | -1.305 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>11:30:00 | 47 | 0.0 | 0.0 | 132.0 | 132.0 | 0.0 | 0.00 | -2.425 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>11:45:00 | 48 | 0.0 | 0.0 | 173.0 | 173.0 | 0.0 | 0.00 | -2.775 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>12:00:00 | 49 | 0.0 | 0.0 | 205.0 | 205.0 | 0.0 | 0.00 | -2.083 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>12:15:00 | 50 | 0.0 | 0.0 | 156.0 | 156.0 | 0.0 | 0.00 | -3.242 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>12:30:00 | 51 | 0.0 | 0.0 | 177.0 | 177.0 | 0.0 | 0.00 | -1.330 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>12:45:00 | 52 | 0.0 | 0.0 | 133.0 | 133.0 | 0.0 | 0.00 | -0.830 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>13:00:00 | 53 | 0.0 | 0.0 | 119.0 | 119.0 | 0.0 | 0.00 | 2.775  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>13:15:00 | 54 | 0.0 | 0.0 | 139.0 | 139.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>13:30:00 | 55 | 0.0 | 0.0 | 189.0 | 189.0 | 0.0 | 0.00 | -1.012 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>13:45:00 | 56 | 0.0 | 0.0 | 133.0 | 133.0 | 0.0 | 0.00 | -1.087 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>14:00:00 | 57 | 0.0 | 0.0 | 174.0 | 174.0 | 0.0 | 0.00 | -3.101 | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 08/01/2020<br>14:15:00 | 58 | 0.0 | 0.0 | 171.0 | 171.0 | 0.0 | 0.00 | -4.081 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>14:30:00 | 59 | 0.0 | 0.0 | 178.0 | 178.0 | 0.0 | 0.00 | -2.996 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>14:45:00 | 60 | 0.0 | 0.0 | 70.0  | 70.0  | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>15:00:00 | 61 | 0.0 | 0.0 | 124.0 | 124.0 | 0.0 | 0.00 | -1.879 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>15:15:00 | 62 | 0.0 | 0.0 | 150.0 | 150.0 | 0.0 | 0.00 | -4.081 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>15:30:00 | 63 | 0.0 | 0.0 | 92.0  | 92.0  | 0.0 | 0.00 | 4.938  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>15:45:00 | 64 | 0.0 | 0.0 | 76.0  | 76.0  | 0.0 | 0.00 | 4.719  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>16:00:00 | 65 | 0.0 | 0.0 | 273.0 | 273.0 | 0.0 | 0.00 | 0.555  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>16:15:00 | 66 | 0.0 | 0.0 | 173.0 | 173.0 | 0.0 | 0.00 | -4.081 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>16:30:00 | 67 | 0.0 | 0.0 | 127.0 | 127.0 | 0.0 | 0.00 | -3.754 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>16:45:00 | 68 | 0.0 | 0.0 | 77.0  | 77.0  | 0.0 | 0.00 | -8.000 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>17:00:00 | 69 | 0.0 | 0.0 | 32.0  | 32.0  | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>17:15:00 | 70 | 0.0 | 0.0 | 8.0   | 8.0   | 0.0 | 0.00 | 4.081  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>17:30:00 | 71 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -5.387 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>17:45:00 | 72 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>18:00:00 | 73 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.775 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>18:15:00 | 74 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -3.101 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>18:30:00 | 75 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.220 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>18:45:00 | 76 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.220  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>19:00:00 | 77 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 1.110  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>19:15:00 | 78 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.220 | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 08/01/2020<br>19:30:00 | 79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.220 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>19:45:00 | 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.555 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>20:00:00 | 81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.775  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>20:15:00 | 82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.101  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>20:30:00 | 83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.408  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>20:45:00 | 84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.101  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>21:00:00 | 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.101  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>21:15:00 | 86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.555 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>21:30:00 | 87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.110 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>21:45:00 | 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.110 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>22:00:00 | 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.489 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>22:15:00 | 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.775 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>22:30:00 | 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.223 | 0.000000 |
| Mansar 132kV | 08/01/2020<br>22:45:00 | 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.110  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>23:00:00 | 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.110  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>23:15:00 | 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.110  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>23:30:00 | 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.775  | 0.000000 |
| Mansar 132kV | 08/01/2020<br>23:45:00 | 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>00:00:00 | 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.576 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>00:15:00 | 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.727 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>00:30:00 | 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.879 | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 09/01/2020<br>00:45:00 | 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.879 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>01:00:00 | 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.519 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>01:15:00 | 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.519 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>01:30:00 | 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.199 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>01:45:00 | 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.519  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>02:00:00 | 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.519  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>02:15:00 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.879  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>02:30:00 | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.199  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>02:45:00 | 12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.152  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>03:00:00 | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.879 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>03:15:00 | 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.839 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>03:30:00 | 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.199  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>03:45:00 | 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>04:00:00 | 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>04:15:00 | 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>04:30:00 | 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>04:45:00 | 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.879  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>05:00:00 | 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.839  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>05:15:00 | 22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.119  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>05:30:00 | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.064  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>05:45:00 | 24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.152  | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 09/01/2020<br>06:00:00 | 25 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.303 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>06:15:00 | 26 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.303  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>06:30:00 | 27 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -3.839 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>06:45:00 | 28 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.879 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>07:00:00 | 29 | 0.0 | 0.0 | 1.0   | 1.0   | 0.0 | 0.00 | -2.879 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>07:15:00 | 30 | 0.0 | 0.0 | 30.0  | 30.0  | 0.0 | 0.00 | 6.400  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>07:30:00 | 31 | 0.0 | 0.0 | 44.0  | 44.0  | 0.0 | 0.00 | 1.172  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>07:45:00 | 32 | 0.0 | 0.0 | 84.0  | 84.0  | 0.0 | 0.00 | 0.576  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>08:00:00 | 33 | 0.0 | 0.0 | 184.0 | 184.0 | 0.0 | 0.00 | -0.576 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>08:15:00 | 34 | 0.0 | 0.0 | 183.0 | 183.0 | 0.0 | 0.00 | -1.152 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>08:30:00 | 35 | 0.0 | 0.0 | 294.0 | 294.0 | 0.0 | 0.00 | 0.576  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>08:45:00 | 36 | 0.0 | 0.0 | 334.0 | 334.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>09:00:00 | 37 | 0.0 | 0.0 | 370.0 | 370.0 | 0.0 | 0.00 | 1.152  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>09:15:00 | 38 | 0.0 | 0.0 | 511.0 | 511.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>09:30:00 | 39 | 0.0 | 0.0 | 503.0 | 503.0 | 0.0 | 0.00 | -3.839 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>09:45:00 | 40 | 0.0 | 0.0 | 623.0 | 623.0 | 0.0 | 0.00 | -1.152 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>10:00:00 | 41 | 0.0 | 0.0 | 781.0 | 781.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>10:15:00 | 42 | 0.0 | 0.0 | 808.0 | 808.0 | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>10:30:00 | 43 | 0.0 | 0.0 | 863.0 | 863.0 | 0.0 | 0.00 | 2.303  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>10:45:00 | 44 | 0.0 | 0.0 | 922.0 | 922.0 | 0.0 | 0.00 | -1.144 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>11:00:00 | 45 | 0.0 | 0.0 | 955.0 | 955.0 | 0.0 | 0.00 | -4.479 | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 09/01/2020<br>11:15:00 | 46 | 0.0 | 0.0 | 982.0  | 982.0  | 0.0 | 0.00 | -3.519 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>11:30:00 | 47 | 0.0 | 0.0 | 1014.0 | 1014.0 | 0.0 | 0.00 | -2.303 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>11:45:00 | 48 | 0.0 | 0.0 | 999.0  | 999.0  | 0.0 | 0.00 | -0.576 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>12:00:00 | 49 | 0.0 | 0.0 | 1028.0 | 1028.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>12:15:00 | 50 | 0.0 | 0.0 | 1027.0 | 1027.0 | 0.0 | 0.00 | 3.839  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>12:30:00 | 51 | 0.0 | 0.0 | 994.0  | 994.0  | 0.0 | 0.00 | 3.199  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>12:45:00 | 52 | 0.0 | 0.0 | 889.0  | 889.0  | 0.0 | 0.00 | 3.199  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>13:00:00 | 53 | 0.0 | 0.0 | 892.0  | 892.0  | 0.0 | 0.00 | -1.152 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>13:15:00 | 54 | 0.0 | 0.0 | 976.0  | 976.0  | 0.0 | 0.00 | -1.152 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>13:30:00 | 55 | 0.0 | 0.0 | 927.0  | 927.0  | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>13:45:00 | 56 | 0.0 | 0.0 | 862.0  | 862.0  | 0.0 | 0.00 | 3.199  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>14:00:00 | 57 | 0.0 | 0.0 | 812.0  | 812.0  | 0.0 | 0.00 | 4.345  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>14:15:00 | 58 | 0.0 | 0.0 | 694.0  | 694.0  | 0.0 | 0.00 | 3.941  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>14:30:00 | 59 | 0.0 | 0.0 | 656.0  | 656.0  | 0.0 | 0.00 | 1.152  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>14:45:00 | 60 | 0.0 | 0.0 | 606.0  | 606.0  | 0.0 | 0.00 | -0.576 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>15:00:00 | 61 | 0.0 | 0.0 | 584.0  | 584.0  | 0.0 | 0.00 | -1.006 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>15:15:00 | 62 | 0.0 | 0.0 | 463.0  | 463.0  | 0.0 | 0.00 | 3.199  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>15:30:00 | 63 | 0.0 | 0.0 | 395.0  | 395.0  | 0.0 | 0.00 | 2.879  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>15:45:00 | 64 | 0.0 | 0.0 | 313.0  | 313.0  | 0.0 | 0.00 | 3.839  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>16:00:00 | 65 | 0.0 | 0.0 | 268.0  | 268.0  | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>16:15:00 | 66 | 0.0 | 0.0 | 210.0  | 210.0  | 0.0 | 0.00 | -1.727 | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 09/01/2020<br>16:30:00 | 67 | 0.0 | 0.0 | 147.0 | 147.0 | 0.0 | 0.00 | -4.159 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>16:45:00 | 68 | 0.0 | 0.0 | 95.0  | 95.0  | 0.0 | 0.00 | 3.839  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>17:00:00 | 69 | 0.0 | 0.0 | 47.0  | 47.0  | 0.0 | 0.00 | 1.727  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>17:15:00 | 70 | 0.0 | 0.0 | 21.0  | 21.0  | 0.0 | 0.00 | 3.839  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>17:30:00 | 71 | 0.0 | 0.0 | 4.0   | 4.0   | 0.0 | 0.00 | -2.879 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>17:45:00 | 72 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -4.146 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>18:00:00 | 73 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -3.349 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>18:15:00 | 74 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -4.563 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>18:30:00 | 75 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -3.839 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>18:45:00 | 76 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.879 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>19:00:00 | 77 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -3.199 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>19:15:00 | 78 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.727 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>19:30:00 | 79 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.442 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>19:45:00 | 80 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -0.286 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>20:00:00 | 81 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.070 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>20:15:00 | 82 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.236 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>20:30:00 | 83 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -4.799 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>20:45:00 | 84 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.727 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>21:00:00 | 85 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.727 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>21:15:00 | 86 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 1.152  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>21:30:00 | 87 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 1.152  | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 09/01/2020<br>21:45:00 | 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.303 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>22:00:00 | 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.795 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>22:15:00 | 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.674 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>22:30:00 | 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.303 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>22:45:00 | 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.152 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>23:00:00 | 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 09/01/2020<br>23:15:00 | 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.576 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>23:30:00 | 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.576 | 0.000000 |
| Mansar 132kV | 09/01/2020<br>23:45:00 | 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.987 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>00:00:00 | 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.680 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>00:15:00 | 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.326 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>00:30:00 | 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.992 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>00:45:00 | 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.532 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>01:00:00 | 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.713 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>01:15:00 | 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.548 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>01:30:00 | 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>01:45:00 | 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.127  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>02:00:00 | 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.342  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>02:15:00 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.595  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>02:30:00 | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.326  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>02:45:00 | 12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.658  | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 10/01/2020<br>03:00:00 | 13 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.658  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>03:15:00 | 14 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.127  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>03:30:00 | 15 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.127  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>03:45:00 | 16 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.063 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>04:00:00 | 17 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 1.595  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>04:15:00 | 18 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 3.326  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>04:30:00 | 19 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 3.326  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>04:45:00 | 20 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.127  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>05:00:00 | 21 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.992  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>05:15:00 | 22 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 1.063  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>05:30:00 | 23 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>05:45:00 | 24 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.127  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>06:00:00 | 25 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.127 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>06:15:00 | 26 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.658  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>06:30:00 | 27 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.992 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>06:45:00 | 28 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -3.077 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>07:00:00 | 29 | 0.0 | 0.0 | 13.0  | 13.0  | 0.0 | 0.00 | -0.687 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>07:15:00 | 30 | 0.0 | 0.0 | 45.0  | 45.0  | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>07:30:00 | 31 | 0.0 | 0.0 | 95.0  | 95.0  | 0.0 | 0.00 | -1.063 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>07:45:00 | 32 | 0.0 | 0.0 | 171.0 | 171.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>08:00:00 | 33 | 0.0 | 0.0 | 247.0 | 247.0 | 0.0 | 0.00 | -4.328 | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 10/01/2020<br>08:15:00 | 34 | 0.0 | 0.0 | 329.0  | 329.0  | 0.0 | 0.00 | -4.661 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>08:30:00 | 35 | 0.0 | 0.0 | 413.0  | 413.0  | 0.0 | 0.00 | 5.663  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>08:45:00 | 36 | 0.0 | 0.0 | 508.0  | 508.0  | 0.0 | 0.00 | 4.328  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>09:00:00 | 37 | 0.0 | 0.0 | 596.0  | 596.0  | 0.0 | 0.00 | -4.995 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>09:15:00 | 38 | 0.0 | 0.0 | 721.0  | 721.0  | 0.0 | 0.00 | -4.327 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>09:30:00 | 39 | 0.0 | 0.0 | 799.0  | 799.0  | 0.0 | 0.00 | -2.127 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>09:45:00 | 40 | 0.0 | 0.0 | 871.0  | 871.0  | 0.0 | 0.00 | -1.152 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>10:00:00 | 41 | 0.0 | 0.0 | 934.0  | 934.0  | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>10:15:00 | 42 | 0.0 | 0.0 | 992.0  | 992.0  | 0.0 | 0.00 | -0.532 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>10:30:00 | 43 | 0.0 | 0.0 | 1042.0 | 1042.0 | 0.0 | 0.00 | -1.063 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>10:45:00 | 44 | 0.0 | 0.0 | 1084.0 | 1084.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>11:00:00 | 45 | 0.0 | 0.0 | 1117.0 | 1117.0 | 0.0 | 0.00 | 2.658  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>11:15:00 | 46 | 0.0 | 0.0 | 1139.0 | 1139.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>11:30:00 | 47 | 0.0 | 0.0 | 1161.0 | 1161.0 | 0.0 | 0.00 | -1.595 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>11:45:00 | 48 | 0.0 | 0.0 | 1166.0 | 1166.0 | 0.0 | 0.00 | 2.992  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>12:00:00 | 49 | 0.0 | 0.0 | 1165.0 | 1165.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>12:15:00 | 50 | 0.0 | 0.0 | 1162.0 | 1162.0 | 0.0 | 0.00 | 2.127  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>12:30:00 | 51 | 0.0 | 0.0 | 1158.0 | 1158.0 | 0.0 | 0.00 | 1.595  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>12:45:00 | 52 | 0.0 | 0.0 | 1144.0 | 1144.0 | 0.0 | 0.00 | -1.063 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>13:00:00 | 53 | 0.0 | 0.0 | 1121.0 | 1121.0 | 0.0 | 0.00 | 2.658  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>13:15:00 | 54 | 0.0 | 0.0 | 1090.0 | 1090.0 | 0.0 | 0.00 | 2.658  | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 10/01/2020<br>13:30:00 | 55 | 0.0 | 0.0 | 1051.0 | 1051.0 | 0.0 | 0.00 | 2.127  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>13:45:00 | 56 | 0.0 | 0.0 | 1009.0 | 1009.0 | 0.0 | 0.00 | -3.326 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>14:00:00 | 57 | 0.0 | 0.0 | 961.0  | 961.0  | 0.0 | 0.00 | -2.992 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>14:15:00 | 58 | 0.0 | 0.0 | 907.0  | 907.0  | 0.0 | 0.00 | 3.660  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>14:30:00 | 59 | 0.0 | 0.0 | 842.0  | 842.0  | 0.0 | 0.00 | -2.127 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>14:45:00 | 60 | 0.0 | 0.0 | 778.0  | 778.0  | 0.0 | 0.00 | -2.127 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>15:00:00 | 61 | 0.0 | 0.0 | 689.0  | 689.0  | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>15:15:00 | 62 | 0.0 | 0.0 | 600.0  | 600.0  | 0.0 | 0.00 | -2.992 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>15:30:00 | 63 | 0.0 | 0.0 | 503.0  | 503.0  | 0.0 | 0.00 | -4.995 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>15:45:00 | 64 | 0.0 | 0.0 | 400.0  | 400.0  | 0.0 | 0.00 | -4.327 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>16:00:00 | 65 | 0.0 | 0.0 | 286.0  | 286.0  | 0.0 | 0.00 | -4.995 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>16:15:00 | 66 | 0.0 | 0.0 | 192.0  | 192.0  | 0.0 | 0.00 | -8.000 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>16:30:00 | 67 | 0.0 | 0.0 | 109.0  | 109.0  | 0.0 | 0.00 | -8.000 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>16:45:00 | 68 | 0.0 | 0.0 | 50.0   | 50.0   | 0.0 | 0.00 | 4.327  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>17:00:00 | 69 | 0.0 | 0.0 | 27.0   | 27.0   | 0.0 | 0.00 | 0.532  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>17:15:00 | 70 | 0.0 | 0.0 | 17.0   | 17.0   | 0.0 | 0.00 | -1.595 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>17:30:00 | 71 | 0.0 | 0.0 | 3.0    | 3.0    | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>17:45:00 | 72 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | -2.127 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>18:00:00 | 73 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | -1.461 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>18:15:00 | 74 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 3.326  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>18:30:00 | 75 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | -2.658 | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 10/01/2020<br>18:45:00 | 76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.994  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>19:00:00 | 77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.127 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>19:15:00 | 78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>19:30:00 | 79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.660 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>19:45:00 | 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.326 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>20:00:00 | 81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.660  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>20:15:00 | 82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.660  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>20:30:00 | 83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.995  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>20:45:00 | 84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.992  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>21:00:00 | 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.660 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>21:15:00 | 86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.595 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>21:30:00 | 87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.063 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>21:45:00 | 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.532 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>22:00:00 | 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.595 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>22:15:00 | 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.127 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>22:30:00 | 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.063  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>22:45:00 | 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>23:00:00 | 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.658 | 0.000000 |
| Mansar 132kV | 10/01/2020<br>23:15:00 | 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>23:30:00 | 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 10/01/2020<br>23:45:00 | 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 11/01/2020<br>00:00:00 | 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>00:15:00 | 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.629 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>00:30:00 | 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.577 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>00:45:00 | 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.103  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>01:00:00 | 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>01:15:00 | 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.052  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>01:30:00 | 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.577  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>01:45:00 | 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.526 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>02:00:00 | 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.403 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>02:15:00 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.630 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>02:30:00 | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.526 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>02:45:00 | 12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.526 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>03:00:00 | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.051 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>03:15:00 | 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>03:30:00 | 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>03:45:00 | 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>04:00:00 | 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>04:15:00 | 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.051 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>04:30:00 | 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.964 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>04:45:00 | 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.300 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>05:00:00 | 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.307  | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 11/01/2020<br>05:15:00 | 22 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 5.314  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>05:30:00 | 23 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>05:45:00 | 24 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 2.103  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>06:00:00 | 25 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 3.636  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>06:15:00 | 26 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>06:30:00 | 27 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 4.105  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>06:45:00 | 28 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | 5.650  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>07:00:00 | 29 | 0.0 | 0.0 | 17.0   | 17.0   | 0.0 | 0.00 | 3.300  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>07:15:00 | 30 | 0.0 | 0.0 | 50.0   | 50.0   | 0.0 | 0.00 | 5.314  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>07:30:00 | 31 | 0.0 | 0.0 | 120.0  | 120.0  | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>07:45:00 | 32 | 0.0 | 0.0 | 193.0  | 193.0  | 0.0 | 0.00 | 2.103  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>08:00:00 | 33 | 0.0 | 0.0 | 274.0  | 274.0  | 0.0 | 0.00 | -1.577 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>08:15:00 | 34 | 0.0 | 0.0 | 361.0  | 361.0  | 0.0 | 0.00 | 3.300  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>08:30:00 | 35 | 0.0 | 0.0 | 455.0  | 455.0  | 0.0 | 0.00 | 2.116  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>08:45:00 | 36 | 0.0 | 0.0 | 552.0  | 552.0  | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>09:00:00 | 37 | 0.0 | 0.0 | 682.0  | 682.0  | 0.0 | 0.00 | 6.681  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>09:15:00 | 38 | 0.0 | 0.0 | 766.0  | 766.0  | 0.0 | 0.00 | 6.657  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>09:30:00 | 39 | 0.0 | 0.0 | 844.0  | 844.0  | 0.0 | 0.00 | -6.322 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>09:45:00 | 40 | 0.0 | 0.0 | 910.0  | 910.0  | 0.0 | 0.00 | -2.103 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>10:00:00 | 41 | 0.0 | 0.0 | 967.0  | 967.0  | 0.0 | 0.00 | 0.526  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>10:15:00 | 42 | 0.0 | 0.0 | 1019.0 | 1019.0 | 0.0 | 0.00 | 0.526  | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 11/01/2020<br>10:30:00 | 43 | 0.0 | 0.0 | 1062.0 | 1062.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>10:45:00 | 44 | 0.0 | 0.0 | 1103.0 | 1103.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>11:00:00 | 45 | 0.0 | 0.0 | 1135.0 | 1135.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>11:15:00 | 46 | 0.0 | 0.0 | 1160.0 | 1160.0 | 0.0 | 0.00 | -2.964 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>11:30:00 | 47 | 0.0 | 0.0 | 1175.0 | 1175.0 | 0.0 | 0.00 | -4.307 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>11:45:00 | 48 | 0.0 | 0.0 | 1181.0 | 1181.0 | 0.0 | 0.00 | -3.300 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>12:00:00 | 49 | 0.0 | 0.0 | 1191.0 | 1191.0 | 0.0 | 0.00 | -0.526 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>12:15:00 | 50 | 0.0 | 0.0 | 1187.0 | 1187.0 | 0.0 | 0.00 | -2.103 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>12:30:00 | 51 | 0.0 | 0.0 | 1182.0 | 1182.0 | 0.0 | 0.00 | -2.629 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>12:45:00 | 52 | 0.0 | 0.0 | 1167.0 | 1167.0 | 0.0 | 0.00 | -2.629 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>13:00:00 | 53 | 0.0 | 0.0 | 1145.0 | 1145.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>13:15:00 | 54 | 0.0 | 0.0 | 1113.0 | 1113.0 | 0.0 | 0.00 | -2.103 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>13:30:00 | 55 | 0.0 | 0.0 | 1076.0 | 1076.0 | 0.0 | 0.00 | 2.629  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>13:45:00 | 56 | 0.0 | 0.0 | 1035.0 | 1035.0 | 0.0 | 0.00 | 2.103  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>14:00:00 | 57 | 0.0 | 0.0 | 990.0  | 990.0  | 0.0 | 0.00 | 1.051  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>14:15:00 | 58 | 0.0 | 0.0 | 927.0  | 927.0  | 0.0 | 0.00 | 3.300  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>14:30:00 | 59 | 0.0 | 0.0 | 860.0  | 860.0  | 0.0 | 0.00 | -3.636 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>14:45:00 | 60 | 0.0 | 0.0 | 793.0  | 793.0  | 0.0 | 0.00 | 4.979  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>15:00:00 | 61 | 0.0 | 0.0 | 701.0  | 701.0  | 0.0 | 0.00 | -2.964 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>15:15:00 | 62 | 0.0 | 0.0 | 606.0  | 606.0  | 0.0 | 0.00 | -5.314 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>15:30:00 | 63 | 0.0 | 0.0 | 506.0  | 506.0  | 0.0 | 0.00 | 2.964  | 0.000000 |

|              |                        |    |     |     |       |       |     |      |        |          |
|--------------|------------------------|----|-----|-----|-------|-------|-----|------|--------|----------|
| Mansar 132kV | 11/01/2020<br>15:45:00 | 64 | 0.0 | 0.0 | 400.0 | 400.0 | 0.0 | 0.00 | 4.643  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>16:00:00 | 65 | 0.0 | 0.0 | 298.0 | 298.0 | 0.0 | 0.00 | 2.103  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>16:15:00 | 66 | 0.0 | 0.0 | 203.0 | 203.0 | 0.0 | 0.00 | -2.964 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>16:30:00 | 67 | 0.0 | 0.0 | 112.0 | 112.0 | 0.0 | 0.00 | -2.103 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>16:45:00 | 68 | 0.0 | 0.0 | 57.0  | 57.0  | 0.0 | 0.00 | 3.972  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>17:00:00 | 69 | 0.0 | 0.0 | 32.0  | 32.0  | 0.0 | 0.00 | -1.577 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>17:15:00 | 70 | 0.0 | 0.0 | 20.0  | 20.0  | 0.0 | 0.00 | -1.577 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>17:30:00 | 71 | 0.0 | 0.0 | 4.0   | 4.0   | 0.0 | 0.00 | 1.051  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>17:45:00 | 72 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.103 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>18:00:00 | 73 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.964 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>18:15:00 | 74 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -2.629 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>18:30:00 | 75 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.103  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>18:45:00 | 76 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 0.526  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>19:00:00 | 77 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.103  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>19:15:00 | 78 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | -1.052 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>19:30:00 | 79 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>19:45:00 | 80 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.629  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>20:00:00 | 81 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.629  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>20:15:00 | 82 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 4.307  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>20:30:00 | 83 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>20:45:00 | 84 | 0.0 | 0.0 | 0.0   | 0.0   | 0.0 | 0.00 | 2.629  | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 11/01/2020<br>21:00:00 | 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.636  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>21:15:00 | 86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.577 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>21:30:00 | 87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.577 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>21:45:00 | 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.052 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>22:00:00 | 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.650 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>22:15:00 | 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -5.650 | 0.000000 |
| Mansar 132kV | 11/01/2020<br>22:30:00 | 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.979  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>22:45:00 | 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.964  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>23:00:00 | 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.577  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>23:15:00 | 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1.074  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>23:30:00 | 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.113  | 0.000000 |
| Mansar 132kV | 11/01/2020<br>23:45:00 | 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.162  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>00:00:00 | 1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>00:15:00 | 2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.152 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>00:30:00 | 3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.152 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>00:45:00 | 4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>01:00:00 | 5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.629 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>01:15:00 | 6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.317 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>01:30:00 | 7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.354 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>01:45:00 | 8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>02:00:00 | 9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -2.690 | 0.000000 |

|              |                        |    |     |     |      |      |     |      |        |          |
|--------------|------------------------|----|-----|-----|------|------|-----|------|--------|----------|
| Mansar 132kV | 12/01/2020<br>02:15:00 | 10 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>02:30:00 | 11 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.690 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>02:45:00 | 12 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>03:00:00 | 13 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.354  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>03:15:00 | 14 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.022  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>03:30:00 | 15 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.354  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>03:45:00 | 16 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 2.152  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>04:00:00 | 17 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.152 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>04:15:00 | 18 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>04:30:00 | 19 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 1.076  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>04:45:00 | 20 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>05:00:00 | 21 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.686  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>05:15:00 | 22 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 3.686  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>05:30:00 | 23 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -1.614 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>05:45:00 | 24 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -0.496 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>06:00:00 | 25 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>06:15:00 | 26 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -0.430 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>06:30:00 | 27 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | -2.152 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>06:45:00 | 28 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0 | 0.00 | 4.681  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>07:00:00 | 29 | 0.0 | 0.0 | 16.0 | 16.0 | 0.0 | 0.00 | 1.614  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>07:15:00 | 30 | 0.0 | 0.0 | 47.0 | 47.0 | 0.0 | 0.00 | 3.838  | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 12/01/2020<br>07:30:00 | 31 | 0.0 | 0.0 | 101.0  | 101.0  | 0.0 | 0.00 | 3.022  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>07:45:00 | 32 | 0.0 | 0.0 | 198.0  | 198.0  | 0.0 | 0.00 | 2.690  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>08:00:00 | 33 | 0.0 | 0.0 | 290.0  | 290.0  | 0.0 | 0.00 | -2.690 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>08:15:00 | 34 | 0.0 | 0.0 | 384.0  | 384.0  | 0.0 | 0.00 | -4.018 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>08:30:00 | 35 | 0.0 | 0.0 | 482.0  | 482.0  | 0.0 | 0.00 | -2.690 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>08:45:00 | 36 | 0.0 | 0.0 | 580.0  | 580.0  | 0.0 | 0.00 | 3.022  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>09:00:00 | 37 | 0.0 | 0.0 | 670.0  | 670.0  | 0.0 | 0.00 | -3.354 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>09:15:00 | 38 | 0.0 | 0.0 | 753.0  | 753.0  | 0.0 | 0.00 | -4.350 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>09:30:00 | 39 | 0.0 | 0.0 | 830.0  | 830.0  | 0.0 | 0.00 | 2.152  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>09:45:00 | 40 | 0.0 | 0.0 | 896.0  | 896.0  | 0.0 | 0.00 | -2.690 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>10:00:00 | 41 | 0.0 | 0.0 | 956.0  | 956.0  | 0.0 | 0.00 | -3.354 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>10:15:00 | 42 | 0.0 | 0.0 | 1009.0 | 1009.0 | 0.0 | 0.00 | -3.686 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>10:30:00 | 43 | 0.0 | 0.0 | 1058.0 | 1058.0 | 0.0 | 0.00 | -1.614 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>10:45:00 | 44 | 0.0 | 0.0 | 1098.0 | 1098.0 | 0.0 | 0.00 | 3.686  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>11:00:00 | 45 | 0.0 | 0.0 | 1130.0 | 1130.0 | 0.0 | 0.00 | -3.354 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>11:15:00 | 46 | 0.0 | 0.0 | 1155.0 | 1155.0 | 0.0 | 0.00 | -5.450 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>11:30:00 | 47 | 0.0 | 0.0 | 1166.0 | 1166.0 | 0.0 | 0.00 | -6.009 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>11:45:00 | 48 | 0.0 | 0.0 | 1177.0 | 1177.0 | 0.0 | 0.00 | 2.690  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>12:00:00 | 49 | 0.0 | 0.0 | 1174.0 | 1174.0 | 0.0 | 0.00 | 3.686  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>12:15:00 | 50 | 0.0 | 0.0 | 1175.0 | 1175.0 | 0.0 | 0.00 | -5.345 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>12:30:00 | 51 | 0.0 | 0.0 | 1168.0 | 1168.0 | 0.0 | 0.00 | -3.022 | 0.000000 |

|              |                        |    |     |     |        |        |     |      |        |          |
|--------------|------------------------|----|-----|-----|--------|--------|-----|------|--------|----------|
| Mansar 132kV | 12/01/2020<br>12:45:00 | 52 | 0.0 | 0.0 | 1147.0 | 1147.0 | 0.0 | 0.00 | -5.345 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>13:00:00 | 53 | 0.0 | 0.0 | 1118.0 | 1118.0 | 0.0 | 0.00 | -3.999 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>13:15:00 | 54 | 0.0 | 0.0 | 1087.0 | 1087.0 | 0.0 | 0.00 | -4.350 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>13:30:00 | 55 | 0.0 | 0.0 | 1055.0 | 1055.0 | 0.0 | 0.00 | -1.076 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>13:45:00 | 56 | 0.0 | 0.0 | 1013.0 | 1013.0 | 0.0 | 0.00 | -2.690 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>14:00:00 | 57 | 0.0 | 0.0 | 966.0  | 966.0  | 0.0 | 0.00 | -0.538 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>14:15:00 | 58 | 0.0 | 0.0 | 911.0  | 911.0  | 0.0 | 0.00 | -2.152 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>14:30:00 | 59 | 0.0 | 0.0 | 843.0  | 843.0  | 0.0 | 0.00 | -2.690 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>14:45:00 | 60 | 0.0 | 0.0 | 772.0  | 772.0  | 0.0 | 0.00 | -1.076 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>15:00:00 | 61 | 0.0 | 0.0 | 687.0  | 687.0  | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>15:15:00 | 62 | 0.0 | 0.0 | 599.0  | 599.0  | 0.0 | 0.00 | -2.690 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>15:30:00 | 63 | 0.0 | 0.0 | 497.0  | 497.0  | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>15:45:00 | 64 | 0.0 | 0.0 | 396.0  | 396.0  | 0.0 | 0.00 | -3.686 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>16:00:00 | 65 | 0.0 | 0.0 | 295.0  | 295.0  | 0.0 | 0.00 | -3.737 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>16:15:00 | 66 | 0.0 | 0.0 | 199.0  | 199.0  | 0.0 | 0.00 | -5.786 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>16:30:00 | 67 | 0.0 | 0.0 | 114.0  | 114.0  | 0.0 | 0.00 | -4.350 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>16:45:00 | 68 | 0.0 | 0.0 | 57.0   | 57.0   | 0.0 | 0.00 | -1.614 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>17:00:00 | 69 | 0.0 | 0.0 | 31.0   | 31.0   | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>17:15:00 | 70 | 0.0 | 0.0 | 18.0   | 18.0   | 0.0 | 0.00 | 2.690  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>17:30:00 | 71 | 0.0 | 0.0 | 4.0    | 4.0    | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>17:45:00 | 72 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0 | 0.00 | -2.152 | 0.000000 |

|              |                        |    |     |     |     |     |     |      |        |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|--------|----------|
| Mansar 132kV | 12/01/2020<br>18:00:00 | 73 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -0.538 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>18:15:00 | 74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.350 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>18:30:00 | 75 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.690  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>18:45:00 | 76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>19:00:00 | 77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.686  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>19:15:00 | 78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.690  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>19:30:00 | 79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.022 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>19:45:00 | 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.781 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>20:00:00 | 81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.021 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>20:15:00 | 82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.018 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>20:30:00 | 83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.354 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>20:45:00 | 84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.614 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>21:00:00 | 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -4.350 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>21:15:00 | 86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.686 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>21:30:00 | 87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -1.614 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>21:45:00 | 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.000  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>22:00:00 | 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | -3.354 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>22:15:00 | 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 4.350  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>22:30:00 | 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 5.215  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>22:45:00 | 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |
| Mansar 132kV | 12/01/2020<br>23:00:00 | 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 3.022  | 0.000000 |

|              |                        |    |     |     |     |     |     |      |       |          |
|--------------|------------------------|----|-----|-----|-----|-----|-----|------|-------|----------|
| Mansar 132kV | 12/01/2020<br>23:15:00 | 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.152 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>23:30:00 | 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.152 | 0.000000 |
| Mansar 132kV | 12/01/2020<br>23:45:00 | 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 2.152 | 0.000000 |