

WMATA Accessibility Advisory Committee

Monthly Synopsis of WMATA Elevator and Escalator Performance

Reporting Date: 8/1/2016

Subject: Office of Elevator and Escalator
Monthly Statistics for Period Spanning
July 1- July 31,2016

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Office of Elevator and Escalator

To: Accessibility Advisory Committee (AAC)

Performance Synopsis for Period Spanning

JULY 1 2016 JULY 31 2016

| | <u>Elevator</u> | <u>Escalator</u> |
|---|-----------------|------------------|
| System Availability (Overall) | 96.2% | 92.8% |
| Scheduled Availability (Excludes CIP & Sch. Outages) | 97.6% | 96.3% |
| MTBF (Mean Time Between Failures) Hrs. | 439.8 | 153.8 |
| MTTR (Mean Time to Repair) Hrs. | 10.6 | 5.7 |
| Total Number of Failures | 350 | 2,208 |

System Availability - Availability inclusive of both scheduled and unscheduled work

Scheduled Availability - Availability exclusive of scheduled work

Scheduled work - Includes CIP's, Inspections, and similar work that is planned in advance

MTBF - Is the elapsed time between failures during a systems operating time

MTTR - Is the average time required to repair a failure

Historical Data

| <u>FY 2017 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEPT</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
|----------------------|------------|------------|-------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 96.2% | | | | | | 96.2% |
| Sch. Avail | 97.6% | | | | | | 97.6% |
| Escalators | | | | | | | |
| Sys. Avail | 92.8% | | | | | | 92.8% |
| Sch. Avail | 96.3% | | | | | | 96.3% |
| <u>FY 2016 Q3/Q4</u> | <u>JAN</u> | <u>FEB</u> | <u>MAR</u> | <u>APR</u> | <u>MAY</u> | <u>JUN</u> | <u>Avg. of Q3/Q4</u> |
| Elevators | | | | | | | |
| Sys. Avail | 97.2% | 97.1% | 97.1% | 97.0% | 96.8% | 97.0% | 97.0% |
| Sch. Avail | 98.9% | 98.6% | 98.4% | 98.9% | 98.2% | 98.1% | 98.5% |
| Escalators | | | | | | | |
| Sys. Avail | 93.3% | 93.4% | 94.2% | 93.6% | 93.5% | 92.6% | 93.4% |
| Sch. Avail | 96.9% | 97.0% | 96.8% | 97.5% | 97.1% | 96.7% | 97.0% |
| <u>FY 2016 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEP</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
| Elevators | | | | | | | |
| Sys. Avail | 96.1% | 97.2% | 97.0% | 96.7% | 96.2% | 97.0% | 96.7% |
| Sch. Avail | 97.9% | 98.7% | 98.6% | 98.2% | 98.3% | 98.9% | 98.4% |
| Escalators | | | | | | | |
| Sys. Avail | 93.2% | 93.0% | 93.1% | 93.3% | 93.0% | 93.3% | 93.2% |
| Sch. Avail | 97.1% | 97.2% | 97.3% | 97.3% | 97.1% | 97.1% | 97.2% |
| <u>FY 2015 Q3/Q4</u> | <u>JAN</u> | <u>FEB</u> | <u>MAR</u> | <u>APR</u> | <u>MAY</u> | <u>JUN</u> | <u>Avg. of Q3/Q4</u> |
| Elevators | | | | | | | |
| Sys. Avail | 96.5% | 97.2% | 98.0% | 97.4% | 96.8% | 96.4% | 97.0% |
| Sch. Avail | 98.0% | 98.6% | 98.9% | 99.0% | 98.7% | 98.4% | 98.6% |
| Escalators | | | | | | | |
| Sys. Avail | 93.0% | 93.9% | 94.0% | 94.0% | 93.4% | 93.8% | 93.7% |
| Sch. Avail | 96.7% | 97.4% | 97.7% | 97.8% | 97.5% | 97.4% | 97.4% |

| <u>FY 2015 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEP</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 96.6% | 97.2% | 97.0% | 96.1% | 96.2% | 96.3% | 96.6% |
| Sch. Avail | 97.3% | 98.0% | 98.5% | 98.0% | 97.7% | 98.0% | 97.9% |
| Escalators | | | | | | | |
| Sys. Avail | 92.9% | 92.3% | 92.6% | 93.4% | 94.0% | 93.3% | 93.1% |
| Sch. Avail | 96.4% | 96.3% | 96.3% | 97.2% | 97.3% | 96.8% | 96.7% |

| <u>FY 2014 Q3/Q4</u> | <u>JAN</u> | <u>FEB</u> | <u>MAR</u> | <u>APR</u> | <u>MAY</u> | <u>JUN</u> | <u>Avg. of Q3/Q4</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 97.0% | 96.9% | 97.0% | 97.2% | 97.5% | 97.9% | 97.3% |
| Sch. Avail | 98.3% | 98.0% | 97.9% | 97.8% | 98.3% | 98.7% | 98.2% |
| Escalators | | | | | | | |
| Sys. Avail | 92.0% | 93.7% | 93.6% | 92.7% | 92.7% | 92.8% | 92.9% |
| Sch. Avail | 95.3% | 96.8% | 97.2% | 96.6% | 96.7% | 96.9% | 96.6% |

| <u>FY 2014 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEP</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 96.1% | 96.4% | 97.0% | 96.4% | 97.0% | 97.3% | 96.7% |
| Sch. Avail | 99.1% | 98.7% | 98.9% | 98.7% | 98.5% | 98.1% | 98.7% |
| Escalators | | | | | | | |
| Sys. Avail | 92.1% | 92.9% | 93.0% | 92.9% | 93.4% | 92.3% | 92.8% |
| Sch. Avail | 95.2% | 95.5% | 95.3% | 95.5% | 95.8% | 95.3% | 95.4% |

| <u>FY 2013 Q3/Q4</u> | <u>JAN</u> | <u>FEB</u> | <u>MAR</u> | <u>APR</u> | <u>MAY</u> | <u>JUN</u> | <u>Avg. of Q3/Q4</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 97.6% | 96.5% | 96.4% | 95.9% | 95.3% | 94.6% | 96.1% |
| Sch. Avail | 99.4% | 98.3% | 98.7% | 99.1% | 99.1% | 98.5% | 98.8% |
| Escalators | | | | | | | |
| Sys. Avail | 90.3% | 90.1% | 90.9% | 92.2% | 91.5% | 92.8% | 91.3% |
| Sch. Avail | 93.9% | 93.3% | 95.1% | 96.2% | 95.2% | 95.8% | 94.9% |

| <u>FY 2013 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEP</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 97.5% | 97.2% | 97.3% | 97.5% | 97.6% | 97.1% | 97.4% |
| Sch. Avail | 98.5% | 98.9% | 99.1% | 99.3% | 99.0% | 98.4% | 98.9% |
| Escalators | | | | | | | |
| Sys. Avail | 90.2% | 89.3% | 87.6% | 87.8% | 90.2% | 90.8% | 89.3% |
| Sch. Avail | 93.6% | 93.0% | 91.5% | 90.9% | 93.1% | 93.8% | 92.6% |

| <u>FY 2012 Q3/Q4</u> | <u>JAN</u> | <u>FEB</u> | <u>MAR</u> | <u>APR</u> | <u>MAY</u> | <u>JUN</u> | <u>Avg. of Q3/Q4</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 96.0% | 96.6% | 96.3% | 96.9% | 98.0% | 0.0% | 96.3% |
| Sch. Avail | 97.3% | 98.3% | 98.0% | 98.7% | 98.7% | 0.0% | 97.9% |
| Escalators | | | | | | | |
| Sys. Avail | 89.0% | 89.4% | 89.7% | 90.3% | 91.2% | 0.0% | 89.4% |
| Sch. Avail | 93.6% | 94.3% | 94.2% | 94.3% | 95.1% | 0.0% | 94.0% |

| <u>FY 2012 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEP</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 96.2% | 94.7% | 95.2% | 95.7% | 96.8% | 96.0% | 95.8% |
| Sch. Avail | 96.6% | 95.0% | 95.3% | 96.2% | 97.2% | 97.0% | 96.2% |
| Escalators | | | | | | | |
| Sys. Avail | 80.6% | 82.4% | 86.8% | 88.4% | 89.5% | 88.4% | 86.0% |
| Sch. Avail | 85.1% | 86.4% | 90.6% | 92.0% | 93.1% | 92.3% | 89.9% |

| <u>FY 2011 Q3/Q4</u> | <u>JAN</u> | <u>FEB</u> | <u>MAR</u> | <u>APR</u> | <u>MAY</u> | <u>JUN</u> | <u>Avg. of Q3/Q4</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 96.2% | 96.0% | 97.2% | 96.2% | 97.8% | 98.0% | 96.9% |
| Sch. Avail | 96.3% | 96.1% | 97.3% | 96.3% | 97.8% | 98.1% | 97.0% |
| Escalators | | | | | | | |
| Sys. Avail | 87.5% | 87.0% | 86.6% | 84.6% | 81.5% | 83.1% | 85.1% |
| Sch. Avail | 90.7% | 88.3% | 89.5% | 86.9% | 84.6% | 87.3% | 87.9% |

| <u>FY 2011 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEP</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 95.5% | 94.6% | 95.9% | 96.4% | 96.9% | 96.6% | 96.0% |
| Sch. Avail | 95.5% | 95.0% | 96.8% | 97.2% | 97.0% | 96.6% | 96.3% |
| Escalators | | | | | | | |
| Sys. Avail | 88.6% | 89.4% | 89.4% | 87.4% | 88.5% | 89.4% | 88.8% |
| Sch. Avail | 91.2% | 91.6% | 91.3% | 89.3% | 90.5% | 92.4% | 91.0% |

| <u>FY 2010 Q3/Q4</u> | <u>JAN</u> | <u>FEB</u> | <u>MAR</u> | <u>APR</u> | <u>MAY</u> | <u>JUN</u> | <u>Avg. of Q3/Q4</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 97.3% | 97.8% | 97.3% | 97.8% | 97.1% | 96.7% | 97.4% |
| Sch. Avail | 97.3% | 97.8% | 97.4% | 97.9% | 97.3% | 96.7% | 97.4% |
| Escalators | | | | | | | |
| Sys. Avail | 90.0% | 89.7% | 89.4% | 90.1% | 89.8% | 90.2% | 89.9% |
| Sch. Avail | 92.2% | 92.0% | 91.8% | 92.2% | 92.5% | 92.5% | 92.2% |

| <u>FY 2010 Q1/Q2</u> | <u>JUL</u> | <u>AUG</u> | <u>SEP</u> | <u>OCT</u> | <u>NOV</u> | <u>DEC</u> | <u>Avg. of Q1/Q2</u> |
|----------------------|------------|------------|------------|------------|------------|------------|----------------------|
| Elevators | | | | | | | |
| Sys. Avail | 96.6% | 94.7% | 93.1% | 96.9% | 95.8% | 97.1% | 95.7% |
| Sch. Avail | 96.7% | 94.7% | 93.1% | 97.1% | 95.9% | 97.1% | 95.8% |
| Escalators | | | | | | | |
| Sys. Avail | 88.9% | 89.9% | 90.1% | 90.4% | 91.3% | 91.8% | 90.4% |
| Sch. Avail | 91.0% | 92.1% | 92.8% | 93.4% | 93.9% | 94.1% | 92.9% |