WMATA Accessibility Advisory Committee

Monthly Synopsis of WMATA Elevator and Escalator Performance

Reporting Date: 7/1/2017

Subject: Office of Elevator and Escalator

Monthly Statistics for Period Spanning

June 1, 2017 - June 30, 2017

From: Lisa Blush

Office of Elevator and Escalator

Via: Mitch Nici, General Superintendent

Office of Elevator and Escalator

and

Dan White, Asst. General Superintendent

Office of Elevator and Escalator

To: Accessibility Advisory Committee (AAC)

Performance Synopsis for Period Spanning

June 1, 2017- June 30, 2017

	<u>Elevator</u>	<u>Escalator</u>
System Availability (Overall)	96.8%	93.6%
Scheduled Availability (Excludes CIP & Sch. Outages)	98.6%	95.4%
MTBF (Mean Time Between Failures) Hrs.	482.7	110.6
MTTR (Mean Time to Repair) Hrs.	6.7	5.2
Total Number of Failures	356	485

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

		H	istorical	Data		
<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	MAY	<u>JUN</u>	Avg. of Q3/Q4
94.1%	96.6%	96.7%	96.6%	94.9%	96.8%	95.9%
96.8%	98.3%	98.5%	98.2%	97.3%	98.6%	98.0%
						95.0%
98.6%	96.9%	97.7%	97.6%	97.3%	95.4%	97.2%
JUL	AUG	SEPT	OCT	NOV	DEC	Avg. of Q1/Q2
96.2%	96.7%	96.5%	96.6%	96.6%	97.5%	96.7%
97.6%	98.2%	98.4%	98.3%	98.3%	99.4%	98.4%
92.8%	92.1%	92.5%	93.6%	93.7%	95.2%	93.3%
96.3%	95.8%	96.3%	96.8%	96.8%	98.1%	96.7%
JAN	FEB	MAR	APR	MAY	<u>JUN</u>	Avg. of Q3/Q4
97.2%	97.1%	97.1%	97.0%	96.8%	97.0%	97.0%
98.9%	98.6%	98.4%	98.9%	98.2%	98.1%	98.5%
93.3%	93.4%	94.2%	93.6%	93.5%	92.6%	93.4%
96.9%	97.0%	96.8%	97.5%	97.1%	96.7%	97.0%
JUI	AUG	SEP	OCT	NOV	DEC	Avg. of Q1/Q2
	<u> </u>	<u> </u>	<u> </u>	1101	210	711 gr 01 01 11 02
96 1%	97 2%	97.0%	96.7%	96.2%	97.0%	96.7%
						98.4%
30,0	30 70	30.070	00.270	00.070	23.070	33
93.2%	93.0%	93.1%	93.3%	93.0%	93.3%	93.2%
	94.1% 96.8% 96.4% 98.6% JUL 96.2% 97.6% 92.8% 96.3% JAN 97.2% 98.9% 93.3%	94.1% 96.6% 98.3% 96.4% 94.4% 96.9% 96.9% 96.7% 97.6% 98.2% 92.1% 96.3% 95.8% JAN FEB 97.2% 97.1% 98.9% 98.6% 93.3% 93.4% 96.9% 97.0% JUL AUG 96.1% 97.2%	JAN FEB MAR 94.1% 96.6% 96.7% 96.8% 98.3% 98.5% 96.4% 94.4% 95.5% 98.6% 96.9% 97.7% JUL AUG SEPT 96.2% 96.7% 96.5% 97.6% 98.2% 98.4% 92.8% 92.1% 92.5% 96.3% 95.8% 96.3% JAN FEB MAR 97.2% 97.1% 97.1% 98.9% 98.6% 98.4% 93.3% 93.4% 94.2% 96.9% 97.0% 96.8% JUL AUG SEP 96.1% 97.2% 97.0%	JAN FEB MAR APR 94.1% 96.6% 96.7% 96.6% 96.8% 98.3% 98.5% 98.2% 96.4% 94.4% 95.5% 95.4% 98.6% 96.9% 97.7% 97.6% JUL AUG SEPT OCT 96.2% 96.7% 96.5% 96.6% 97.6% 98.2% 98.4% 98.3% 92.8% 92.1% 92.5% 93.6% 96.3% 95.8% 96.3% 96.8% 97.2% 97.1% 97.1% 97.0% 98.9% 98.6% 98.4% 98.9% 93.3% 93.4% 94.2% 93.6% 96.9% 97.0% 96.8% 97.5% JUL AUG SEP OCT 96.1% 97.2% 97.0% 96.7%	94.1% 96.6% 96.7% 96.6% 94.9% 96.8% 98.3% 98.5% 98.2% 97.3% 96.4% 94.4% 95.5% 95.4% 94.9% 98.6% 96.9% 97.7% 97.6% 97.3% JUL AUG SEPT OCT NOV 96.2% 96.7% 96.5% 96.6% 96.6% 97.6% 98.2% 98.4% 98.3% 98.3% 92.8% 92.1% 92.5% 93.6% 93.7% 96.3% 95.8% 96.3% 96.8% 96.8% 97.2% 97.1% 97.1% 97.0% 96.8% 98.9% 98.6% 98.4% 98.9% 98.2% 93.3% 93.4% 94.2% 93.6% 93.5% 96.9% 97.0% 96.8% 97.5% 97.1% JUL AUG SEP OCT NOV 96.1% 97.2% 97.0% 96.7% 96.2%	JAN FEB MAR APR MAY JUN 94.1% 96.6% 96.7% 96.6% 94.9% 96.8% 96.8% 98.3% 98.5% 98.2% 97.3% 98.6% 96.4% 94.4% 95.5% 95.4% 94.9% 93.6% 98.6% 96.9% 97.7% 97.6% 97.3% 95.4% JUL AUG SEPT OCT NOV DEC 96.2% 96.7% 96.5% 96.6% 97.5% 97.6% 98.2% 98.4% 98.3% 99.4% 92.8% 92.1% 92.5% 93.6% 93.7% 95.2% 96.3% 95.8% 96.3% 96.8% 98.1% 97.2% 97.1% 97.0% 96.8% 97.0% 98.9% 98.6% 98.4% 98.9% 98.2% 98.1% 93.3% 93.4% 94.2% 93.6% 93.5% 92.6% 96.9% 97.0% 96.8% 97.1% 96.7%

FY 2015 Q3/Q4	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	Avg. of Q3/0
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%
FY 2015 Q1/Q2	JUL	AUG	SEP	ОСТ	NOV	DEC	Avg. of Q1/0
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%
FY 2014 Q3/Q4	96.4%	96.3% <u>FEB</u>	96.3% MAR	97.2% <u>APR</u>	97.3% <u>MAY</u>	96.8%	96.7% <u>Avg. of Q3/</u>
FY 2014 Q3/Q4 Elevators	JAN	<u>FEB</u>	MAR	<u>APR</u>	MAY	<u>JUN</u>	Avg. of Q3/
FY 2014 Q3/Q4	JAN 97.0%	FEB 96.9%	MAR 97.0%	APR 97.2%	<u>MAY</u> 97.5%	JUN 97.9%	Avg. of Q3/0 97.3%
FY 2014 Q3/Q4 Elevators Sys. Avail	JAN	<u>FEB</u>	MAR	<u>APR</u>	MAY	<u>JUN</u>	Avg. of Q3/
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail	JAN 97.0%	FEB 96.9%	MAR 97.0%	APR 97.2%	<u>MAY</u> 97.5%	JUN 97.9%	Avg. of Q3/
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators	JAN 97.0% 98.3%	FEB 96.9% 98.0%	MAR 97.0% 97.9%	APR 97.2% 97.8%	MAY 97.5% 98.3%	JUN 97.9% 98.7%	Avg. of Q3/ 97.3% 98.2%
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	97.0% 98.3% 92.0%	FEB 96.9% 98.0% 93.7%	MAR 97.0% 97.9% 93.6%	97.2% 97.8% 92.7%	MAY 97.5% 98.3% 92.7%	JUN 97.9% 98.7% 92.8%	Avg. of Q3/ 97.3% 98.2% 92.9%
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	97.0% 98.3% 92.0%	FEB 96.9% 98.0% 93.7%	MAR 97.0% 97.9% 93.6%	97.2% 97.8% 92.7%	MAY 97.5% 98.3% 92.7%	JUN 97.9% 98.7% 92.8%	Avg. of Q3/ 97.3% 98.2% 92.9% 96.6%
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2014 Q1/Q2 Elevators	97.0% 98.3% 92.0% 95.3%	96.9% 98.0% 93.7% 96.8%	MAR 97.0% 97.9% 93.6% 97.2% SEP	97.2% 97.8% 92.7% 96.6%	97.5% 98.3% 92.7% 96.7%	JUN 97.9% 98.7% 92.8% 96.9%	97.3% 98.2% 92.9% 96.6%
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2014 Q1/Q2 Elevators Sys. Avail	97.0% 98.3% 92.0% 95.3% JUL 96.1%	96.9% 98.0% 93.7% 96.8% AUG 96.4%	MAR 97.0% 97.9% 93.6% 97.2% SEP 97.0%	97.2% 97.8% 92.7% 96.6% OCT 96.4%	97.5% 98.3% 92.7% 96.7% NOV 97.0%	JUN 97.9% 98.7% 92.8% 96.9% DEC 97.3%	Avg. of Q3/4 97.3% 98.2% 92.9% 96.6% Avg. of Q1/4
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2014 Q1/Q2 Elevators Sys. Avail Sch. Avail	97.0% 98.3% 92.0% 95.3%	96.9% 98.0% 93.7% 96.8%	MAR 97.0% 97.9% 93.6% 97.2% SEP	97.2% 97.8% 92.7% 96.6%	97.5% 98.3% 92.7% 96.7%	JUN 97.9% 98.7% 92.8% 96.9%	97.3% 98.2% 92.9% 96.6%
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2014 Q1/Q2 Elevators Sys. Avail Sch. Avail Escalators	97.0% 98.3% 92.0% 95.3% JUL 96.1% 99.1%	96.9% 98.0% 93.7% 96.8% AUG 96.4% 98.7%	97.0% 97.9% 93.6% 97.2% SEP 97.0% 98.9%	97.2% 97.8% 92.7% 96.6% OCT 96.4% 98.7%	97.5% 98.3% 92.7% 96.7% NOV 97.0% 98.5%	97.9% 98.7% 92.8% 96.9% DEC 97.3% 98.1%	97.3% 98.2% 92.9% 96.6% Avg. of Q1/0 96.7% 98.7%
FY 2014 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2014 Q1/Q2 Elevators Sys. Avail Sch. Avail	97.0% 98.3% 92.0% 95.3% JUL 96.1%	96.9% 98.0% 93.7% 96.8% AUG 96.4%	MAR 97.0% 97.9% 93.6% 97.2% SEP 97.0%	97.2% 97.8% 92.7% 96.6% OCT 96.4%	97.5% 98.3% 92.7% 96.7% NOV 97.0%	JUN 97.9% 98.7% 92.8% 96.9% DEC 97.3%	Avg. of Q3/0 97.3% 98.2% 92.9% 96.6% Avg. of Q1/0 96.7%

FY 2013 Q3/Q4	<u>JAN</u>	<u>FEB</u>	MAR	<u>APR</u>	MAY	<u>JUN</u>	Avg. of Q3/Q4
Elevators	07.00/	00.50/	00.40/	05.00/	05.00/	0.4.00/	00.40/
Sys. Avail Sch. Avail	97.6% 99.4%	96.5% 98.3%	96.4% 98.7%	95.9% 99.1%	95.3% 99.1%	94.6% 98.5%	96.1% 98.8%
Escalators	00.470	00.070	00.1 70	00.170	00.170	00.070	30.070
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%
FY 2013 Q1/Q2	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>oct</u>	NOV	DEC	Avg. of Q1/Q2
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%
EV 2040 00/04	1451	FED	MAD	ADD	BAAV	11 151	Ave. of 02/04
FY 2012 Q3/Q4	<u>JAN</u>	<u>FEB</u>	MAR	<u>APR</u>	MAY	<u>JUN</u>	Avg. of Q3/Q4
Elevators							
	JAN 96.0% 97.3%	FEB 96.6% 98.3%	MAR 96.3% 98.0%	APR 96.9% 98.7%	98.0% 98.7%	JUN 0.0% 0.0%	Avg. of Q3/Q4 96.3% 97.9%
Elevators Sys. Avail	96.0%	96.6%	96.3%	96.9%	98.0%	0.0%	96.3%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	96.0% 97.3% 89.0%	96.6% 98.3% 89.4%	96.3% 98.0% 89.7%	96.9% 98.7% 90.3%	98.0% 98.7% 91.2%	0.0% 0.0%	96.3% 97.9% 89.4%
Elevators Sys. Avail Sch. Avail Escalators	96.0% 97.3%	96.6% 98.3%	96.3% 98.0%	96.9% 98.7%	98.0% 98.7%	0.0%	96.3% 97.9%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	96.0% 97.3% 89.0%	96.6% 98.3% 89.4%	96.3% 98.0% 89.7%	96.9% 98.7% 90.3%	98.0% 98.7% 91.2%	0.0% 0.0%	96.3% 97.9% 89.4%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	96.0% 97.3% 89.0%	96.6% 98.3% 89.4%	96.3% 98.0% 89.7%	96.9% 98.7% 90.3%	98.0% 98.7% 91.2%	0.0% 0.0%	96.3% 97.9% 89.4%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.0% 97.3% 89.0% 93.6%	96.6% 98.3% 89.4% 94.3%	96.3% 98.0% 89.7% 94.2%	96.9% 98.7% 90.3% 94.3%	98.0% 98.7% 91.2% 95.1%	0.0% 0.0% 0.0%	96.3% 97.9% 89.4% 94.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2012 Q1/Q2 Elevators Sys. Avail	96.0% 97.3% 89.0% 93.6% JUL 96.2%	96.6% 98.3% 89.4% 94.3% AUG	96.3% 98.0% 89.7% 94.2% SEP	96.9% 98.7% 90.3% 94.3% OCT 95.7%	98.0% 98.7% 91.2% 95.1% NOV	0.0% 0.0% 0.0% 0.0% DEC	96.3% 97.9% 89.4% 94.0% Avg. of Q1/Q2
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2012 Q1/Q2 Elevators Sys. Avail Sch. Avail	96.0% 97.3% 89.0% 93.6%	96.6% 98.3% 89.4% 94.3%	96.3% 98.0% 89.7% 94.2%	96.9% 98.7% 90.3% 94.3%	98.0% 98.7% 91.2% 95.1%	0.0% 0.0% 0.0% 0.0%	96.3% 97.9% 89.4% 94.0% Avg. of Q1/Q2
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2012 Q1/Q2 Elevators Sys. Avail Sch. Avail Escalators	96.0% 97.3% 89.0% 93.6% JUL 96.2% 96.6%	96.6% 98.3% 89.4% 94.3% AUG 94.7% 95.0%	96.3% 98.0% 89.7% 94.2% SEP 95.2% 95.3%	96.9% 98.7% 90.3% 94.3% OCT 95.7% 96.2%	98.0% 98.7% 91.2% 95.1% NOV 96.8% 97.2%	0.0% 0.0% 0.0% 0.0% DEC 96.0% 97.0%	96.3% 97.9% 89.4% 94.0% Avg. of Q1/Q2 95.8% 96.2%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2012 Q1/Q2 Elevators Sys. Avail Sch. Avail	96.0% 97.3% 89.0% 93.6% JUL 96.2%	96.6% 98.3% 89.4% 94.3% AUG	96.3% 98.0% 89.7% 94.2% SEP	96.9% 98.7% 90.3% 94.3% OCT 95.7%	98.0% 98.7% 91.2% 95.1% NOV	0.0% 0.0% 0.0% 0.0% DEC	96.3% 97.9% 89.4% 94.0% Avg. of Q1/Q2

FY 2011 Q3/Q4	<u>JAN</u>	<u>FEB</u>	MAR	<u>APR</u>	MAY	<u>JUN</u>	Avg
Elevators							
Sys. Avail	96.2%	96.0%	97.2%	96.2%	97.8%	98.0%	
Sch. Avail	96.3%	96.1%	97.3%	96.3%	97.8%	98.1%	
Escalators							
Sys. Avail	87.5%	87.0%	86.6%	84.6%	81.5%	83.1%	
Sch. Avail	90.7%	88.3%	89.5%	86.9%	84.6%	87.3%	
EV 0044 04/00		4110	055	007	NOV	DEO	A
FY 2011 Q1/Q2	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	DEC	<u> Av</u>
Elevators							
Sys. Avail	95.5%	94.6%	95.9%	96.4%	96.9%	96.6%	
Sch. Avail	95.5%	95.0%	96.8%	97.2%	97.0%	96.6%	
Escalators							
Sys. Avail	88.6%	89.4%	89.4%	87.4%	88.5%	89.4%	
Sch. Avail	91.2%	91.6%	91.3%	89.3%	90.5%	92.4%	
FY 2010 Q3/Q4	JAN	FEB	MAR	APR	MAY	JUN	Av
Elevators	<u> </u>	<u> </u>	WAIX	<u>ALIC</u>	<u>MAI</u>	<u>5511</u>	7.1.
Sys. Avail	97.3%	97.8%	97.3%	97.8%	97.1%	96.7%	
Sch. Avail	97.3%	97.8%	97.3%	97.8%	97.1%	96.7%	
Escalators	91.570	91.070	37.470	91.970	91.576	30.7 /0	
Sys. Avail	90.0%	89.7%	89.4%	90.1%	89.8%	90.2%	
Sch. Avail	90.0%	92.0%	91.8%	92.2%	92.5%	90.2%	
Scii. Avaii	32.270	92.076	91.070	92.270	92.570	92.570	
FY 2010 Q1/Q2	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	NOV	DEC	<u> Av</u>
Elevators							<u>A</u>
Elevators Sys. Avail	96.6%	94.7%	93.1%	96.9%	95.8%	97.1%	<u>A</u>
Elevators							<u>Av</u>
Elevators Sys. Avail	96.6% 96.7%	94.7% 94.7%	93.1% 93.1%	96.9%	95.8%	97.1% 97.1%	<u>Av</u>
Elevators Sys. Avail Sch. Avail	96.6%	94.7%	93.1%	96.9%	95.8%	97.1%	<u>Av</u>
Elevators Sys. Avail Sch. Avail Escalators	96.6% 96.7%	94.7% 94.7%	93.1% 93.1%	96.9% 97.1%	95.8% 95.9%	97.1% 97.1%	Av