WMATA Accessibility Advisory Committee

Monthly Synopsis of WMATA Elevator and Escalator Performance

Reporting Date: 15 September 2013

Subject Office of Elevator and Escalator

Monthly Statistics for Period Spanning 16 August 2013 - 15 September 2013

From: James McKie

Office of Elevator and Escalator

Via: Lonnie Murray, General Superintendent

Office of Elevator and Escalator

and

Mitchell Nici, Asst. General Superintendent

Office of Elevator and Escalator

To: Accessibility Advisory Committee (AAC)

Performance Synopsis for Period Spanning 16 August 2013 - 15 September 2013

	<u>Elevator</u>	<u>Escalator</u>
System Availability (Overall)	96.4%	92.9%
Scheduled Availability (Excludes CIP & Sch. Outages)	98.7%	95.5%
MTBF (Mean Time Between Failures) Hrs.	453.8	146.3
MTTR (Mean Time to Repair) Hrs.	5.9	6.7
Total Number of Failures	334	3,122

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

FY 2014 Q1/Q2	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>oct</u>	<u>NOV</u>	DEC	Avg. of Q1/Q2
Elevators	00.40/	00.40/	07.00/				00.5%
Sys. Avail Sch. Avail Escalators	96.1% 99.1%	96.4% 98.7%	97.0% 98.9%				96.5% 98.9%
Sys. Avail Sch. Avail	92.1% 95.2%	92.9% 95.5%	93.0% 95.3%				92.7% 95.3%
FY 2013 Q3/Q4 Elevators	<u>JAN</u>	<u>FEB</u>	MAR	<u>APR</u>	MAY	<u>JUN</u>	Avg. of Q3/Q4
Sys. Avail	97.6%	96.5%	96.4%	95.9%	95.3%	94.6%	96.1%
Sch. Avail Escalators	99.4%	98.3%	98.7%	99.1%	99.1%	98.5%	98.8%
Sys. Avail Sch. Avail	90.3% 93.9%	90.1% 93.3%	90.9% 95.1%	92.2% 96.2%	91.5% 95.2%	92.8% 95.8%	91.3% 94.9%
	00.070	00.070	001170	00.270	00.270	00.070	0.10,0
FY 2013 Q1/Q2	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>oct</u>	<u>NOV</u>	DEC	Avg. of Q1/Q2
Elevators							
Sys. Avail	97.5%	97.2%	97.3%	97.5%	97.6%	97.1%	97.4%
Sch. Avail Escalators	98.5%	98.9%	99.1%	99.3%	99.0%	98.4%	98.9%
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%
	00.070	00.070	0.1070	00.070	33.170	00.070	321373
FY 2012 Q3/Q4	<u>JAN</u>	<u>FEB</u>	MAR	<u>APR</u>	MAY	<u>JUN</u>	Avg. of Q3/Q4
Elevators							
Sys. Avail	96.0%	96.6%	96.3%	96.9%	98.0%	0.0%	96.3%
Sch. Avail Escalators	97.3%	98.3%	98.0%	98.7%	98.7%	0.0%	97.9%
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%
FY 2012 Q1/Q2	JUL	<u>AUG</u>	SEP	<u>OCT</u>	<u>NOV</u>	DEC	Avg. of Q1/Q2
Elevators			<u>SEP</u>	<u>oct</u>	<u>NOV</u>		
Elevators Sys. Avail	96.2%	94.7%	SEP 95.2%	<u>OCT</u> 95.7%	NOV 96.8%	96.0%	95.8%
Elevators Sys. Avail Sch. Avail			<u>SEP</u>	<u>oct</u>	<u>NOV</u>		
Elevators Sys. Avail Sch. Avail Escalators	96.2% 96.6%	94.7% 95.0%	SEP 95.2% 95.3%	OCT 95.7% 96.2%	NOV 96.8% 97.2%	96.0% 97.0%	95.8% 96.2%
Elevators Sys. Avail Sch. Avail	96.2%	94.7%	SEP 95.2%	<u>OCT</u> 95.7%	NOV 96.8%	96.0%	95.8%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	96.2% 96.6% 80.6%	94.7% 95.0% 82.4%	SEP 95.2% 95.3% 86.8%	OCT 95.7% 96.2% 88.4%	96.8% 97.2% 89.5%	96.0% 97.0% 88.4%	95.8% 96.2% 86.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	96.2% 96.6% 80.6%	94.7% 95.0% 82.4%	SEP 95.2% 95.3% 86.8%	OCT 95.7% 96.2% 88.4%	96.8% 97.2% 89.5%	96.0% 97.0% 88.4%	95.8% 96.2% 86.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1%	94.7% 95.0% 82.4% 86.4%	SEP 95.2% 95.3% 86.8% 90.6%	95.7% 96.2% 88.4% 92.0%	96.8% 97.2% 89.5% 93.1%	96.0% 97.0% 88.4% 92.3%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail	96.2% 96.6% 80.6% 85.1% JAN 96.2%	94.7% 95.0% 82.4% 86.4% FEB	\$EP 95.2% 95.3% 86.8% 90.6% MAR 97.2%	95.7% 96.2% 88.4% 92.0% APR	96.8% 97.2% 89.5% 93.1% MAY	96.0% 97.0% 88.4% 92.3% JUN 98.0%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1%	94.7% 95.0% 82.4% 86.4%	95.2% 95.3% 86.8% 90.6%	95.7% 96.2% 88.4% 92.0%	96.8% 97.2% 89.5% 93.1%	96.0% 97.0% 88.4% 92.3%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators	96.2% 96.6% 80.6% 85.1% JAN 96.2% 96.3%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3%	96.8% 97.2% 89.5% 93.1% MAY 97.8%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	96.2% 96.6% 80.6% 85.1% JAN 96.2% 96.3% 87.5%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3%	96.8% 97.2% 89.5% 93.1% MAY 97.8% 97.8%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators	96.2% 96.6% 80.6% 85.1% JAN 96.2% 96.3%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3%	96.8% 97.2% 89.5% 93.1% MAY 97.8%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail	96.2% 96.6% 80.6% 85.1% JAN 96.2% 96.3% 87.5%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3%	96.8% 97.2% 89.5% 93.1% MAY 97.8% 97.8%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1% 96.2% 96.3% 87.5% 90.7%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0% 88.3%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3% 86.6% 89.5%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3% 84.6% 86.9%	96.8% 97.2% 89.5% 93.1% MAY 97.8% 97.8% 81.5% 84.6%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1% 83.1% 87.3%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0% 85.1% 87.9%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1% JAN 96.2% 96.3% 87.5% 90.7%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0% 88.3%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3% 86.6% 89.5%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3% 84.6% 86.9%	96.8% 97.2% 89.5% 93.1% MAY 97.8% 97.8% 81.5% 84.6%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1% 83.1% 87.3%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0% 85.1% 87.9% Avg. of Q1/Q2
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1% JAN 96.2% 96.3% 87.5% 90.7%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0% 88.3%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3% 86.6% 89.5%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3% 84.6% 86.9%	96.8% 97.2% 89.5% 93.1% MAY 97.8% 97.8% 81.5% 84.6%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1% 83.1% 87.3%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0% 85.1% 87.9%
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Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1% 96.2% 96.3% 87.5% 90.7% JUL 95.5% 95.5%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0% 88.3% AUG 94.6% 95.0%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3% 86.6% 89.5% SEP 95.9% 96.8%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3% 84.6% 86.9% OCT 96.4% 97.2%	96.8% 97.2% 89.5% 93.1% 97.8% 97.8% 81.5% 84.6% NOV 96.9% 97.0%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1% 83.1% 87.3% DEC 96.6% 96.6%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0% 85.1% 87.9% Avg. of Q1/Q2 96.0% 96.3%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1% 96.2% 96.3% 87.5% 90.7% JUL 95.5%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0% 88.3% AUG 94.6% 95.0%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3% 86.6% 89.5%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3% 84.6% 86.9%	96.8% 97.2% 89.5% 93.1% 97.8% 97.8% 81.5% 84.6% NOV	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1% 83.1% 87.3% DEC 96.6% 96.6%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0% 85.1% 87.9% Avg. of Q1/Q2 96.0% 96.3%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q1/Q2 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1% 96.2% 96.3% 87.5% 90.7% <u>JUL</u> 95.5% 95.5% 91.2%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0% 88.3% AUG 94.6% 95.0% 89.4% 91.6%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3% 86.6% 89.5% SEP 95.9% 96.8% 89.4% 91.3%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3% 84.6% 86.9% OCT 96.4% 97.2% 87.4% 89.3%	96.8% 97.2% 89.5% 93.1% 97.8% 97.8% 81.5% 84.6% NOV 96.9% 97.0% 88.5% 90.5%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1% 83.1% 87.3% DEC 96.6% 96.6% 96.6%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0% 85.1% 87.9% Avg. of Q1/Q2 96.0% 96.3% 88.8% 91.0%
Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail FY 2011 Q3/Q4 Elevators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail Escalators Sys. Avail Sch. Avail	96.2% 96.6% 80.6% 85.1% 96.2% 96.3% 87.5% 90.7% JUL 95.5% 95.5%	94.7% 95.0% 82.4% 86.4% FEB 96.0% 96.1% 87.0% 88.3% AUG 94.6% 95.0%	95.2% 95.3% 86.8% 90.6% MAR 97.2% 97.3% 86.6% 89.5% SEP 95.9% 96.8%	95.7% 96.2% 88.4% 92.0% APR 96.2% 96.3% 84.6% 86.9% OCT 96.4% 97.2%	96.8% 97.2% 89.5% 93.1% 97.8% 97.8% 81.5% 84.6% NOV 96.9% 97.0%	96.0% 97.0% 88.4% 92.3% JUN 98.0% 98.1% 83.1% 87.3% DEC 96.6% 96.6%	95.8% 96.2% 86.0% 89.9% Avg. of Q3/Q4 96.9% 97.0% 85.1% 87.9% Avg. of Q1/Q2 96.0% 96.3%

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%

FY 2010 Q1/Q2	JUL	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	NOV	DEC	Avg. of Q1/Q2
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%