



**CHICAGO TRANSIT AUTHORITY**

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**MEMO**

TO: Donald Bonds, Chief Transit Officer  
Carole Morey, Chief Planning Officer

FROM: Mike Connelly, Vice President, Planning

CC: Bus Fleet Assignment Summary Distribution List

DATE: January 4, 2018

RE: Winter 2017-18 Bus Fleet Assignment Summary

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The Winter 2017-18 Bus Fleet Assignment and Summary was compiled from the fleet inventory as of January 3, 2018, and the Winter 2017 schedule requirements, effective December 17, 2017.

- In total, there are 1,864 vehicles in CTA's bus fleet. This includes 1,556 diesel standard buses, 1 hybrid and 2 electric standard buses, 239 hybrid articulated buses, and 66 diesel articulated buses.
- Inclusive of extras, the current spare ratio across the fleet is 19.6% (a slight increase from the last quarterly assignment report). The spare ratio is 15.9% for standard buses and 42.5% for articulated buses. The high spare ratio for articulated buses is due to their current reliability factor and in anticipation of the overhaul of the 4000-series buses purchased in 2008, which will go through Q1 2019. At the garage level, spare ratios are highest at 103<sup>rd</sup> (25.5%), Kedzie (25.5%), and North Park (21.6%). Chicago Garage has the lowest spare ratio at 10.5%. 77<sup>th</sup> and Forest Glen have spare ratios of 17.9% and 16.8% percent, respectively.
- The average age of the fleet is now 9.2 years, 9.4 years for standards and 8.2 years for articulated buses. The average age of the fleet in this pick ranges from 6.9 years at Chicago garage to 10.6 years at 103<sup>rd</sup>.
- The bus assignment at each garage, with the exception of 77<sup>th</sup> Street, currently exceeds design capacity. Kedzie garage is the highest at 62 "standard bus equivalents" (SBE) over its design capacity. Assignments at 103<sup>rd</sup> (38 SBE), North Park (37 SBE), 74<sup>th</sup> (14 SBE), Chicago (13 SBE), and Forest Glen (7 SBE) are also over their design capacity. In total, this adds to 147 total buses over design capacity across all garages.
- CTA is anticipating an additional 25 Nova 7900s to be delivered in Q4 2018. This will be the final delivery of the contract for 450 7900s.
- CTA is also currently pursuing the purchase of 20 electric buses with charging stations to supplement our 2 existing electric buses. An RFP has been released with bids due back to CTA in Q1 2018.

Vehicle Assignment Summary: Winter 2017-18

Year	Vehicle	Model #	Seats	1 1112 103rd	7 1122 77th	6 1132 74th	K 1152 Kedzie	5 1162 Chicago	P 1172 North Park	F 1182 Forest Glen	Total
	2000 Nova LFS	6400	37	0	0	0	0	0	0	103	103
	2006 New Flyer (1000)	1000	35-39	162	175	152	188	139	147	65	1,028
	2006 NF-Hybrid-Allison	800	39	0	0	0	1	0	0	0	1
	2008 New Flyer - HybridArtic	4000	50-52	61	0	0	81	0	65	0	207
	2012 New Flyer - Allison Artic	4300	58	23	0	0	0	0	9	0	32
	2012 New Flyer - Diesel Artic	4333	58	0	0	0	0	0	66	0	66
	2014 New Flyer - Electric	700	37	0	1	0	1	0	0	0	2
	2014 Nova	7900	36	0	100	112	0	124	0	89	425
<b>Total</b>				<b>246</b>	<b>276</b>	<b>264</b>	<b>271</b>	<b>263</b>	<b>287</b>	<b>257</b>	<b>1,864</b>
<b>Vehicle Summary</b>											
Standard				162	276	264	190	263	147	257	1,559
Articulated				84	0	0	81	0	140	0	305
<b>Total</b>				<b>246</b>	<b>276</b>	<b>264</b>	<b>271</b>	<b>263</b>	<b>287</b>	<b>257</b>	<b>1,864</b>
<b>Garage Capacity</b>											
Standard Bus Equivalents*				288	276	264	311.5	263	357	257	2,017
Garage Design Size				250	300	250	250	250	320	250	1,870
<b>Difference</b>				<b>(38)</b>	<b>24</b>	<b>(14)</b>	<b>(62)</b>	<b>(13)</b>	<b>(37)</b>	<b>(7)</b>	<b>(147)</b>
<b>Peak Schedule</b>											
Max Peak				PM	PM	AM	AM	PM	AM	PM	
<u>Base</u>											
Standard				143	234	219	158	235	133	220	1,342
Articulated				53			58		103		214
<b>Subtotal</b>				<b>196</b>	<b>234</b>	<b>219</b>	<b>216</b>	<b>235</b>	<b>236</b>	<b>220</b>	<b>1,556</b>
<u>Extras</u>											
Standard								3			3
Articulated											0
<b>Subtotal</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<u>All</u>											
Standard				143	234	219	158	238	133	220	1,345
Articulated				53	0	0	58	0	103	0	214
<b>Total</b>				<b>196</b>	<b>234</b>	<b>219</b>	<b>216</b>	<b>238</b>	<b>236</b>	<b>220</b>	<b>1,559</b>
<b>Spare Ratios (Based on schedule)</b>											
Standard				13.3%	17.9%	20.5%	20.3%	10.5%	10.5%	16.8%	15.9%
Articulated				58.5%	-	-	39.7%	-	35.9%	-	42.5%
<b>Total</b>				<b>25.5%</b>	<b>17.9%</b>	<b>20.5%</b>	<b>25.5%</b>	<b>10.5%</b>	<b>21.6%</b>	<b>16.8%</b>	<b>19.6%</b>
<b>APC-Equipped</b>											
Standard				161	275	262	190	262	149	195	1,494
Articulated				83	0	0	81	0	140	0	304
<b>Total</b>				<b>244</b>	<b>275</b>	<b>262</b>	<b>271</b>	<b>262</b>	<b>289</b>	<b>195</b>	<b>1,798</b>
<b>Average Age</b>											
Standard				12.0	9.1	8.1	10.0	7.0	10.3	12.0	9.4
Articulated				8.2	-	-	-	-	7.4	-	8.2
<b>Total</b>				<b>10.6</b>	<b>9.1</b>	<b>8.1</b>	<b>9.9</b>	<b>6.9</b>	<b>8.9</b>	<b>10.2</b>	<b>9.2</b>

\*Garage capacity is expressed in Std Bus Equivalents where 1 articulated bus is equal to 1.5 standard buses for storage purposes.

Note: All buses are ADA-accessible, air-conditioned, and have AVAS installed.

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Extras at Forest Glen, North Park, and Kedzie for Cubs; extras at Chicago for United Center events.

Winter 2017-18

				1112	1122	1132	1152	1162	1172	1182	
Year	Vehicle	Model #	Seats	103rd	77th	74th	Kedzie	Chicago	N. Park	F. Glen	Total
2000	Nova LFS	6400	37							6466	
										6468	
										6470	
										6472	6474
										6477	
										6488	
										6553	6554
										6558	
										6562	
										6564	
										6574	
										6576	6577
										6579	
										6581	
										6585	
										6671	
										6674	6675
										6678	6679
										6681	6682
											6684
										6686	6687
										6691	6692
											6694
										6696	6697
										6699	6700
										6705	6706
											6710
										6713	6714
											6722
											6724
											6730
										6733	6734
										6736	6737
										6746	6747
											6751
											6755
										6758	6759
											6761
										6763	6764
										6770	6772
											6776
											6780
											6784
											6787
										6792	6794
											6799
										6802	6803
											6805
											6810
											6814
							6820				
							6824				
							6826				
						6834	6838				
						6842	6843				
						6846	6847				
							6849				
							6854				
							6856				
						6858	6862				
							6865				
						6867	6871				
							6873				
							6875				

Vehicle Assignment: Winter 2017-18

Year	Vehicle	Model #	Seats	1 1112 103rd	7 1122 77th	6 1132 74th	K 1152 Kedzie	5 1162 Chicago	P 1172 N. Park	F 1182 F. Glen	Total
										6877	
	<b>Nova LFS Subtotal</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>103</b>
	<b>2006 New Flyer (1000)</b>	<b>1000</b>	<b>39</b>	1031 1192	1193 1304 1306 1365 1370 1373 1387	1026 1030 1405 1551	1564 1589 1594 1597 1707 1709 1712 1714 1717 1721 1722 1725 1729 1731 1741 1743 1747 1748 1750 1752 1833 1846 1849 1854	1366 1369 1371 1372 1374 1378 1801 1820 1822 1832 1933 2029	1388 1404 1708 1710 1711 1713 1718 1720 1723 1724 1730 1742 1744 1745 1749 1762 1764 1798 1847 1848 1855 1932	1000 1025 1379 1386 1552 1563 1590 1593 1595 1596 1746 1753 1761 1763 1799 1800	
	<b>New Flyer (1000) Subtotal</b>			<b>162</b>	<b>175</b>	<b>152</b>	<b>188</b>	<b>139</b>	<b>147</b>	<b>65</b>	<b>1028</b>
	<b>2007 NF-Hybrid-Allison</b>	<b>800</b>	<b>39</b>				804				
	<b>NF-Hybrid-Allison Subtotal</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
	<b>2008 New Flyer - HybridArtic</b>	<b>4000</b>	<b>52</b>	4080 4116 4172 4195			4000 4066 4071 4074 4196 4207		4067 4070 4072 4073 4075 4079 4117 4166 4168 4171		
	<b>New Flyer - HybridArtic Subtotal</b>			<b>61</b>	<b>0</b>	<b>0</b>	<b>81</b>	<b>0</b>	<b>65</b>	<b>0</b>	<b>207</b>
	<b>2012 New Flyer - Allison Artic</b>	<b>4300</b>	<b>58</b>	4300 4320 4326 4327					4321 4322 4324 4325 4328 4332		
	<b>New Flyer - Allison Artic Subtotal</b>			<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>32</b>
	<b>2012 New Flyer - Diesel Artic</b>	<b>4340</b>	<b>58</b>						4334 4399		
	<b>New Flyer - Diesel Artic Subtotal</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66</b>	<b>0</b>	<b>66</b>
	<b>2014 New Flyer - Electric</b>	<b>700</b>	<b>37</b>		701						
	<b>New Flyer - Electric Subtotal</b>			<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
	<b>2014 Nova</b>	<b>7900</b>	<b>36</b>		7900 7999	8000 8099 8212 8223		8100 8211 8224 8235		8236 8324	
	<b>Nova Subtotal</b>			<b>0</b>	<b>100</b>	<b>112</b>	<b>0</b>	<b>124</b>	<b>0</b>	<b>89</b>	<b>425</b>
	<b>Total</b>			<b>246</b>	<b>276</b>	<b>264</b>	<b>271</b>	<b>263</b>	<b>287</b>	<b>257</b>	<b>1864</b>

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