

May 22, 2020

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End of Line Observations

Introduction

Personnel from the Occupational Safety and Environmental Compliance Team within the CTA Safety and Security Department were tasked with observing End of Line Servicing of Rail Vehicles to determine adequacy of cleaning and disinfecting of this equipment. Personnel utilized Hygiena Brand swabs and a Hygiena Brand Ensure Luminometer to measure Adenosine triphosphate (ATP) on high-touch surfaces. ATP is present in all organic material and is the universal unit of energy used in all living cells. ATP testing is a broad indicator of cleanliness from all biological soils and useful for cleanliness monitoring. A baseline of 50 relative light units (RLUs) should be considered a passing grade for cleanliness on CTA vehicles. This passing grade demonstrates adequate cleanliness and is achievable.

Personnel also observed servicing activities to determine that processes were being performed as reported and/or according to established Standard Operating Procedures (SOPs). Work stations were also inspected to determine if appropriate equipment and product was present.

Observations

O'Hare Observations

On Monday May 18th 2020, the Safety Team conducted ATP swab sampling and observations at the Blue Line O'Hare train station.

The observations were conducted at the end of the line O'Hare train station to document the methods and duration of cleaning the interior of the rail cars when they pull into the station. There were three car servicers at the site. Each one of them appeared to have a different method of cleaning. All three servicers swept the floors of the cars. One of the servicers swept and mopped the floors and at one point sprayed and wiped down some surfaces if time permitted. Another servicer swept the floors and randomly wiped seats with a damp cloth. The last servicer (middle) only swept the floor of the interior of car. None of the servicers wiped down the high touch surfaces within the interior of the cart. During the servicing process there were homeless passengers that remained in the car. There definitely was not enough time to do a thorough cleaning of the interior of the cars.

The duration of time that the trains at the end of the line for servicing ranged between 1:38:01 – 3:59:86 minutes. Some of the trains that were serviced went directly into the yard and were not put back into service.

ATP Testing Results for O'Hare

Sampler	Date	Time	No. Rail	Cart No.	Orientation	Sample Location	Results	Comments
	5/18/20		3353	1	CS	Door Stanchion	442	
	5/18/20		3353	1	CS	Seat #12 Vent	10	
	5/18/20		3353	1	NCS	Door #1 Handrail	148	
	5/18/20		3353	1	CS	Seat #3 Stanchion	46	
					•			
	5/18/20		3354	1	CS	Seat #12 Vent	10	Outbound
	5/18/20		3354	1	NCS	Door #4 Handrail	148	Outbound
	5/18/20		3354	1	NCS	Seat #3 Stanchion	187	Outbound
	5/18/20		3354	1	CS	Seat #3 Stanchion	46	Outbound
	5/18/20		3354	1	NCS	Seat #2 Stanchion	167	Inbound
	5/18/20		3354	1	NCS	Door #4 Handrail	269	Inbound
	5/18/20		3354	1	NCS	End Door	237	Inbound
	5/18/20	10:45	2821	2	NCS	Door #2 Handrail	196	
	5/18/20	10:47	2821	2	NCS	Seat 5-Handrail	339	
	5/18/20	10:48	2821	2	NCS	Vent-Seat 1	240	
	5/18/20	10:50	2821	2	CS	Seat 1 Handrail	135	
	5/18/20	10:53	2822	1	NCS	Seat 10 Stanchion	38	
	5/18/20	10:54	2822	1	NCS	Door #2 Handrail	607	
	5/18/20	10:56	2822	1	NCS	Seat 7 Handrail	70	
	5/18/20	10:57	2822	1	CS	Door 3 Handrail	198	
	5/18/20	11:19	2821	6	NCS	Door 2 Handrail	883	
	5/18/20	11:20	2821	6	NCS	Seat 5 Handrail	141	
	5/18/20	11:21	2821	6	CS	Seat 1 Handrail	279	
	5/18/20	11:22	2821	6	NCS	Vent Seat 1	205	
				•	•		•	
	5/18/20	11:25	2822	7	NCS	Seat 10 Stanchion	135	
	5/18/20	11:26	2822	7	NCS	Door 2 Handrail	220	
	5/18/20	11:27	2822	7	NCS	Seat 7 Handrail	99	
	5/18/20	11:28	2822	7	NCS	Door 3 Handrail	187	

5/18/20	13:18	3310	3	CS	Door 3 Handrail	341	
5/18/20	13:20	3310	3	NCS	Seat 3 Stanchion	40	
5/18/20	13:25	3310	3	NCS	Door 4 Handrail	1621	
5/18/20	13:35	3310	3	CS	Seat 6 Handrail	323	
5/18/20	13:27	3309	4	CS	Emerg. Door #8	357	
5/18/20	13:27	3309	4	CS	Seat 8 Stanchion	335	
5/18/20	13:30	3309	4	NCS	Seat 5 Rail	886	
5/18/20	13:30	3309	4	CS	Seat 2 Rail	294	
5/18/20	14:20	3279	3	CS	Seat 2 Rail	568	
5/18/20	14:21	3279	3	CS	Seat 3 Rail	668	
5/18/20	14:22	3279	3	NCS	Door 4 Rail	319	
5/18/20	14:25	3279	3	CS	Seat 11 Rail	90	
5/18/20	14:30	3280	4	NCS	Seat 6 Rail	988	
5/18/20	14:30	3280	4	NCS	Seat 8 Door	295	
5/18/20	14:31	3280	4	CS	Seat 5 Rail	143	
5/18/20	14:32	3280	4	CS	Seat 2 Rail	341	

Howard Observations

On May 19, 2020 the Environmental Compliance and Occupational Health and Safety team noted the following observations. At the Howard Rail station a comprehensive cleaning is to take place after all passengers have disembarked and before the train leaves the station for the South Bound trip. While observing the cleaning techniques by the servicer on several trains, it was noted that a thorough cleaning was not being done. As trains pulled in an average of about 3 people were used to clean one train. The cleaning only consisted of the sweeping of each rail car. High touch areas were not addressed. There was notably no disinfectants present, only a bottle of graffiti remover (Ink Spot), a can of foam cleaner, and an unlabeled bottle of green liquid. (See picture below) Also present was dirty mop water and used towels. This same procedure was repeated continually as noted by the data below, with the exception of one servicer. One servicer entered one rail car with towels and a chemical bottle in hand, however the servicer then exited the rail car less than a minute later. There also were several homeless people that would not exit the train upon the arrival to Howard rail Station. If proper cleaning had been in place the servicers would still not be able to thoroughly clean due to this.

While observing the materials to be used for the cleaning of rail cars, there was notably no disinfectants present, only a bottle of graffiti remover, a can of foam cleaner, and an unlabeled bottle of green liquid. Also present was dirty mop water and used towels.

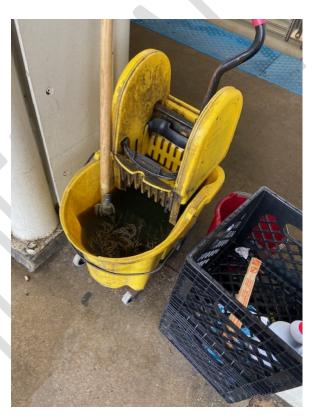
ATP Testing Results for Howard

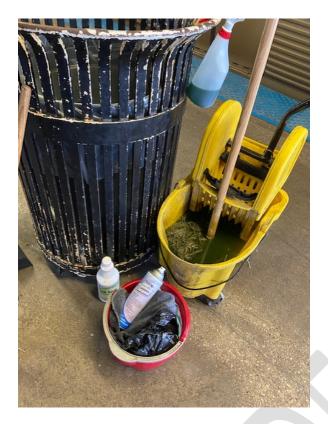
Sampler	Date	Time	No. Rail	Cart No.	Orientation	Sample Location	Results	Comments	
	5/19/20	8:40	5263	1	CS	#1 Strap, Door 1	274	At the end of the line	
	5/19/20	8:42	5263	1	NCS	Hand Pole/Door 3	36	for 8.32 minutes. No	
	5/19/20	8:43	5263	1	NCS	Seat 6, stanchion	38	wipe down, only went	
	5/19/20	8:44	5263	1	NCS	Seat 9, Strap	61	through cars and swept	
	5/19/20	8:40	5264	2	CS	3rd strap	160	At the end of the line	
	5/19/20	8:41	5264	2	CS	2nd seat handle bar	18	for 8.32 minutes. No	
	5/19/20	8:42	5264	2	NCS	2nd stanchion	1057	wipe down, only went	
	5/19/20	8:43	5264	2	CS	Door 1 Handle (L)	114	through cars and swept	
	5/19/20	9:15	5555	1	CS	#1 Strap, Door 4	42	At the end of the line	
	5/19/20	9:16	5555	1	CS	Door 3, hand rail	108	for 14.33 minutes. No wipe down, only went through cars and swept	
	5/19/20	9:18	5555	1	CS	Seat 5, hand rail	154		
	5/19/20	9:19	5555	1	NCS	Seat 1, 3rd strap	365		
								-	
	5/19/20	9:15	5687	3	CS	4th Strap	68	At the end of the line	
	5/19/20	9:16	5687	3	CS	Top Rail (seat 8-9)	298	for 14.33 minutes. No	
	5/19/20	9:17	5687	3	NCS	Door 4 Stanchion (R)	113	wipe down, only went through cars and	
	5/19/20	9:18	5687	3	CS	11 stanchion	13	swept	
	5/19/20	9:45	5505	2	NCS	Door 3, hand rail	615	At the end of the line	
	5/19/20	9:47	5505	2		Emerg. Door Handle	236	for 11.15 minutes. No	
	5/19/20	9:48	5505	2	NCS	Strap #1, Door 1	185	wipe down, only went	
	5/19/20	9:49	5505	2	CS	Seat 8, hand rail	392	through cars and swept	
	5/19/20	9:50	5559	3	NCS	2nd strap	243	At the end of the line	
	5/19/20	9:51	5559	3	NCS	(R) stanchion Door 2	540	for 11.15 minutes. No	
	5/19/20	9:52	5559	3	CS	5th stanchion	430	wipe down, only went	
	5/19/20	9:53	5559	3	NCS	9th stanchion	27	through cars and swept	

5/19/20	12:39	5687	3	NCS	4th Strap	492	
5/19/20	12:41	5687	3	NCS	5th Stanchion	890	No wipe down, only
5/19/20	12:42	5687	3	NCS	Cab Area	902	went through cars and swept
5/19/20	12:43	5687	3	NCS	10th Stanchion	87	- swept
5/19/20	12:45	5422	4	CS	Door 3, Hand Rail L	97	
5/19/20	12:46	5422	4	NCS	Seat 4, stanchion	320	No wipe down, only
5/19/20	12:47	5422	4		Emerg. lift Handle	32	went through cars and swept
5/19/20	12:48	5422	4	CS	4th Strap	35	- swept
5/19/20	1305	5506	1	CS	Door 2, rail	453	
5/19/20	1306	5506	1	CS	Door 1, (L) Handrail	300	No wipe down, only
5/19/20	1307	5506	1	NCS	13th Strap	67	went through cars and swept
5/19/20	1308	5506	1	CS	10th Stanchion	402	Swept
5/19/20	13:33	5457	6	NCS	1st Stanchion	486	No wipe down, only went through cars and swept
5/19/20	13:35	5457	6	NCS	6th Strap	58	
5/19/20	13:37	5457	6	CS	4th Stanchion	163	
5/19/20	13:38	5457	6	NCS	Door 4 - L Stanchion	291	- Swept
5/19/20	13:45	5391	5	CS	Door 1 Stanchion	1974	
5/19/20	13:46	5391	5	CS	Seat 3, Rail handle	201	No wipe down, only
5/19/20	13:48	5391	5	CS	Door 4, rail R	225	went through cars and swept
5/19/20	13:49	5391	5		Emerg. Door rail R	358	- Swept
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5/19/20	13:52	5392	6	NCS	14th Strap	581	
5/19/20	13:53	5392	6	CS	3rd Stanchion	115	No wipe down, only
5/19/20	13:55	5392	6	CS	Door 3, Handle L	290	went through cars and
5/19/20	13:56	5392	6	NCS	1st stanchion	82	swept
5/19/20	13:57	5377	6	NCS	Door 3, Rail R	326	
5/19/20	13:58	5377	6	NCS	5th Stanchion	1140	No wipe down, only
5/19/20	13:59	5377	6	NCS	3rd Strap	843	went through cars and
· · ·				 	'		- swept

Howard platform cleaning products photos:







95th Train Station Observations

On Thursday May 20th 2020, the Safety Team conducted ATP swab sampling and observations at the Red Line/95th train station.

The observations were conducted at the 95th train station to document the methods and duration of cleaning the interior of the rail cars when they pull into the station. Upon arrival, we noted one car servicer on the platform. He had a towel, and an air fresher spray, that later we found out it was called Creamsicle Odor Eliminator. He sprayed foam cleaner on a few seats and wiped it off with the same towel. After approx. two hours of the servicer working alone, two more appeared, however we only witnessed one of them sweeping the train cars, the other one walked back and forth. We observed broom/dustpans, and mop/dirty water. No other chemicals were present. We asked the servicers if they had cleaning products, they said they have Hepiside, foam cleaner and the odor eliminator, which none but the odor eliminator and foam cleaner were present the entire duration of us being there. None of the servicers wiped down the high touch surfaces within the interior of the train cars.

ATP Testing Results for 95th

Sampler	Date	Time	No. Rail	Cart No.	Orientation	Sample Location	Results	Comments
	5/21/20	8:09	5332	4	NCS	#3 Strap	130	

5/21/20	8:11	5332	4	CS	Hand Pole/Door 1	14	At the end of the line
5/21/20	8:12	5332	4	NCS	Stanchion 5	43	for 12.40 minutes.
0, ==, =0		5552	<u> </u>		o tumom o		First 3 carts were
5/21/20	8:13	5332	4	NCS	Seat 7, Strap	0	mopped, sprayed with
							odor eliminator
1				T			
5/21/20	8:14	5331	3	NCS	Emergency Handrail	234	At the end of the line
5/21/20	8:16	5331	3	CS	Door 3 (R) Stanchion	45	for 12.40 minutes. First 3 carts were
5/21/20	8:17	5331	3	NCS	#3 Strap	5425	mopped, sprayed with
5/21/20	8:18	5331	3	NCS	Door 2 (R) Stanchion	116	odor eliminator
1				<u> </u>			
5/21/20	8:54	5640	3	NCS	Door 2 (L) Stanchion	380	At the end of the line
5/21/20	8:56	5640	3	CS	Seat 1, 3rd strap	740	for 9.20 minutes. First
5/21/20	8:57	5640	3	CS	6 stanchion	728	carts were swept,
5/21/20	8:58	5640	3	NCS	8 stanchion	236	sprayed with odor
3,22,20	0.50	30.0			o otanioni		eliminator
5/21/20	9:00	5639	4	NCS	Door 4 Handrail (R)	148	At the end of the line
5/21/20	9:01	5639	4	NCS	Emergency Handrail	454	for 9.20 minutes. First
	9:02	5639	4		8 Stanchion	240	carts were swept,
5/21/20				NCS			sprayed with odor eliminator
5/21/20	9:03	5639	4	CS	7 Stanchion	297	
<u> </u>							_
5/21/20	9:15	5286	2	NCS	Door 2 Handrail (R)	681	At the end of the line
5/21/20	9:17	5286	2	CS	Door 1 (L) Stanchion	136	for 10.30 minutes. No
5/21/20	9:18	5286	2	CS	Door 2 Handrail (R)	1221	wipe down, only went through cars and
5/21/20	9:19	5286	2	NCS	7 Stanchion	98	swept
							•
5/21/20	9:21	5540	4	CS	Door 1 Handrail (L)	246	At the end of the line
5/21/20	9:22	5540	4	CS	Emergency Handrail	0	for 10.30 minutes. No
5/21/20	9:23	5540	4	CS	Door 1 Handrail (R)	2020	wipe down, only went
5/21/20	9:24	5540	4	NCS	Strap 2	648	through cars and
3,22,23	3.11.	33.3			0 ap 2		swept
5/21/20	9:30	5369	3	NCS	Strap 3	389	
5/21/20	9:30	5369	3	CS	1st Stanchion	259	No wipe down, only
5/21/20	9:31	5369	3	NCS	1 seat handrail	99	went through cars and
+					Door 3 Handrail (R)		swept
5/21/20	9:31	5369	3	CS	DOOL 3 HAIIUI'dii (K)	191	
5/21/20	9:42	5361	3	NCS	Door 2, Hand Rail L	345	At the end of the line
5/21/20	9:42	5361	3	CS	1st Strap	22	for 10.52 minutes.
5/21/20	9:42	5361	3	CS	4th Strap	384	First carts were swept,
					·		sprayed with odor
5/21/20	9:43	5361	3	CS	Door 4 handrail	779	eliminator

5/21/20 9:45 5/21/20 9:45 5/21/20 9:46 5/21/20 9:46 5/21/20 9:56 5/21/20 9:56 5/21/20 9:57 5/21/20 9:57 5/21/20 10:00 5/21/20 10:01 5/21/20 10:01 5/21/20 10:01	5362 5362 5362 5362 5372 5372 5372 5372 5371 5371	4 4 4 4 5 5 5 5	CS CS CS CS NCS CS NCS CS NCS	Emergency Handrail 5th Strap 3 stanchion Door 1 handrail (L) Door 3 handrail (L) 5th Stanchion Door 3 handrail (R) 3rd Strap	191 77 176 861 371 740 1125	At the end of the line for 10.52 minutes. First carts were swept, sprayed with odor eliminator At the end of the line for 8.44 minutes. First carts were swept,
5/21/20 9:46 5/21/20 9:46 5/21/20 9:56 5/21/20 9:56 5/21/20 9:57 5/21/20 9:57 5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5362 5362 5372 5372 5372 5372	4 4 5 5 5 5	CS CS NCS CS	3 stanchion Door 1 handrail (L) Door 3 handrail (L) 5th Stanchion Door 3 handrail (R)	176 861 371 740 1125	First carts were swept, sprayed with odor eliminator At the end of the line for 8.44 minutes. First carts were swept,
5/21/20 9:46 5/21/20 9:56 5/21/20 9:56 5/21/20 9:57 5/21/20 9:57 5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5362 5372 5372 5372 5372 5371	4 5 5 5 5	CS CS NCS CS	Door 1 handrail (L) Door 3 handrail (L) 5th Stanchion Door 3 handrail (R)	371 740 1125	At the end of the line for 8.44 minutes. First carts were swept,
5/21/20 9:56 5/21/20 9:56 5/21/20 9:57 5/21/20 9:57 5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5372 5372 5372 5372 5372	5 5 5 5	CS NCS CS	Door 3 handrail (L) 5th Stanchion Door 3 handrail (R)	371 740 1125	At the end of the line for 8.44 minutes. First carts were swept,
5/21/20 9:56 5/21/20 9:57 5/21/20 9:57 5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5372 5372 5372 5371	5 5 5	NCS CS	5th Stanchion Door 3 handrail (R)	740 1125	for 8.44 minutes. First carts were swept,
5/21/20 9:56 5/21/20 9:57 5/21/20 9:57 5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5372 5372 5372 5371	5 5 5	NCS CS	5th Stanchion Door 3 handrail (R)	740 1125	for 8.44 minutes. First carts were swept,
5/21/20 9:57 5/21/20 9:57 5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5372 5372 5371	5 5	CS	Door 3 handrail (R)	1125	carts were swept,
5/21/20 9:57 5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5372	5				' '
5/21/20 10:00 5/21/20 10:00 5/21/20 10:01	5371		NCS	3 rd Strap		sprayed with odor
5/21/20 10:00 5/21/20 10:01	+	6	•		577	eliminator
5/21/20 10:00 5/21/20 10:01	+	6				
5/21/20 10:01	5371		NCS	10th stanchion	1057	At the end of the line
		6	CS	4th stanchion	1526	for 8.44 minutes. First
5/21/20 10:01	5371	6	CS	Door 3 handrail (L)	635	carts were swept,
	5371	6	NCS	Door 2 handrail (L)	611	sprayed with odor eliminator
5/21/20 10:11	5400	8	CS	6th Strap	570	At the end of the line
5/21/20 10:11	5400	8	CS	10 th Stanchion	224	for 3.02 minutes.
5/21/20 10:12	5400	8	NCS	Door 1 handrail (L)	296	Carts were swept, no
5/21/20 10:12	5400	8	CS	4th stanchion	204	wipe down
5/21/20 10:13	5399	7	NCS	3 rd seat handrail	696	At the end of the line
5/21/20 10:13	5399	7	NCS	6 th strap	167	for 3.02 minutes.
5/21/20 10:15	5399	7	NCS	Door 1 handrail (L)	3685	Carts were swept, no
5/21/20 10:15	5399	7	NCS	Emergency Handrail	354	wipe down