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04 December 2019

Dear Ian,

**Proposal to supplement the CP6 Track Usage Price List**

The purpose of this letter is to propose a supplement to the Control Period 6 (CP6) Track Usage Price List, consistent with Schedule 7 of Serco Caledonian Sleepers' Track Access Contract. In particular, a new Variable Usage Charge (VUC) rate for the Mark 5 vehicle type operated by Serco Caledonian Sleepers.

This supplement to the Track Usage Price list has been agreed between Network Rail and Serco Caledonian Sleepers. It is required because Serco Caledonian Sleepers have introduced a new vehicle type on to the Network to replace the existing fleet. The new Mark 5 coaches have already begun operating on the associated services and routes.

The new VUC rate proposed in this letter was calculated using the agreed CP6 VUC calculator developed by Network Rail in 2017/18 prices. The output sheet from the calculator, which sets out the proposed new rate and input information, is appended to this letter.

If you have any queries in relation to the calculation of the proposed new VUC rate, or the content of this letter more generally, we would, of course, be happy to discuss this with you in more detail.

Yours sincerely



Nicholas Prag  
Network Rail



Magnus Conn  
Caledonian Sleepers

Appendix A

**CP6 VUC Calculator: Passenger vehicles**

V7e: March 2019



Calculate another vehicle VUC rate

Vehicle data	
Vehicle name/class	MK5 (Trailer)
Vehicle type	Coach or Multiple Unit
Number of axles	4
Speed (max. mph)	110
Route speed (max. mph)	
Speed (operating. mph)	65.01 (Calculated)
Tare weight (t)	35.175
Operating weight (t)	36.08438
Unsprung mass (kg)	1199
Curving class	User defined
Ct factor	0.89
	Seats 24.25

Calculated VUC		
2017/18 prices		
VUC	7.85	2.1751
	p/vm	£/kGTM
<b>VUC Breakdown</b>		
Track	4.42	1.2240
Structures	0.54	0.1490
Signals (variable)	0.12	0.0331
Signals (fixed)	0.22	0.0612
Surface damage	2.55	0.7079

User specified TGamma value for surface damage calculation				
Radius	Axle			
	1	2	3	4
200	169.87	107.56	153.64	89.22
400	76.42	3.13	68.61	3.07
600	69.03	2.37	67.92	2.92
800	43.57	3.18	40.46	3.3
1000	28.43	1.96	26.42	2.1
1200	18.75	1.76	17.28	1.66
1400	13.43	1.43	12.48	1.41
1800	7.86	1.39	7.3	1.36
2200	5.03	1.48	4.68	1.44
2600	3.62	0.35	3.36	0.29
3000	2.64	0.38	2.45	0.32
4000	1.53	0.35	1.52	0.39
6000	0.9	0.73	0.88	0.75
8000	0.94	1.24	0.94	1.23
10000	0.97	1.46	0.97	1.42