

A27 Arundel Bypass Combined Modelling and Appraisal Errata

PCF Stage 2 – Further Consultation

February 2020

Combined Modelling and Appraisal Errata, February 2020 - A27 Arundel Bypass PCF Stage 2

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1. INTRODUCTION

The purpose of this note is to summarise a set of corrections to the PCF Stage 2 Combined Modelling and Appraisal Report (ComMA) dated August 2019 which formed part of the material available at the 2019 Public Consultation.

In each case, this note sets out the existing text in the ComMA requiring correction (labelled as 'Existing Text') and below it, the corrected text (labelled as 'Amended Text'). The changes required to be made in the Amended Text are highlighted. The corrections relate to data entry, transcription or transposition issues when the document was drafted.

The errata presented herein are intended to be read in conjunction with the published consultation documents provided on Highways England's A27 Arundel Bypass website (<https://highwaysengland.co.uk/projects/a27-arundel-improvement/>).

The corrections presented in this note do not affect the assessments undertaken for the purposes of the ComMA as the amendments are relatively minor technical corrections.

No attachments are included in this note.

2. CORRECTIONS

2.1. ComMA Chapter 12: Forecast Results

Erratum 1

Section	Paragraph / Table	Location
12	Table 12-41	Whole table

Existing Text

Table 12-41 should show model convergence data from the A27 without Worthing and Lancing scenario. Table 12-41 presently shows model convergence data from the A27 with Worthing and Lancing scenario; the same data as is presented in Table 12-4. Table 12-41 is repeated below.

Section	Paragraph / Table	Location
12	Table 12-41	Whole table

Table 12-41: Core fixed demand scenario – convergence criteria

	2026			2041			2051		
	AM	IP	PM	AM	IP	PM	AM	IP	PM
	Final iteration								
DM	227	42	53	62	55	78	89	48	117
1V5	41	36	90	41	44	75	58	74	115
1V9	63	40	92	48	44	93	60	52	86
3V1	61	38	85	34	34	68	60	46	109
4/5AV1	43	36	73	66	44	78	106	47	94
4/5AV2	70	33	70	45	39	75	58	50	106
5BV1	90	33	85	53	41	73	59	71	83
	Final Delta (δ)								
DM	0.0330	0.0133	0.0497	0.0189	0.0153	0.0421	0.0392	0.0391	0.0290
1V5	0.0586	0.0165	0.0205	0.0370	0.0266	0.0276	0.0387	0.0345	0.0274
1V9	0.0547	0.0126	0.0257	0.0204	0.0204	0.0223	0.0348	0.0224	0.0423
3V1	0.0535	0.0107	0.0606	0.0679	0.0330	0.0641	0.0275	0.0253	0.0242
4/5AV1	0.0281	0.0174	0.0206	0.0347	0.0286	0.0309	0.0342	0.0264	0.0305
4/5AV2	0.0585	0.0262	0.0206	0.0521	0.0326	0.0277	0.0512	0.0249	0.0342
5BV1	0.0495	0.0119	0.0198	0.0307	0.0338	0.0309	0.0272	0.0243	0.0356
	Final %Flow								
DM	98.9	98.6	99.2	98.7	99.5	98.7	99.0	98.9	99.6
1V5	98.8	98.6	99.2	99.4	99.2	99.2	99.5	98.7	99.5
1V9	98.6	99.1	99.1	99.2	98.7	99.2	99.3	98.5	99.5
3V1	98.9	98.8	99.0	98.9	99.2	98.9	99.1	98.8	99.6

Section	Paragraph / Table	Location
12	Table 12-41	Whole table

	2026			2041			2051		
	AM	IP	PM	AM	IP	PM	AM	IP	PM
4/5AV1	98.4	98.6	98.7	99.1	98.9	99.3	99.6	98.6	99.5
4/5AV2	98.7	98.8	99.3	98.9	99.1	99.3	99.0	98.7	99.6
5BV1	98.4	99.1	99.2	98.9	98.6	98.8	99.4	99.1	99.1
	Final %Gap								
DM	0.030	0.040	0.037	0.036	0.032	0.038	0.034	0.041	0.042
1V5	0.028	0.034	0.023	0.038	0.049	0.048	0.025	0.033	0.031
1V9	0.033	0.020	0.021	0.032	0.032	0.043	0.027	0.034	0.045
3V1	0.044	0.016	0.032	0.047	0.040	0.048	0.040	0.045	0.050
4/5AV1	0.037	0.036	0.029	0.034	0.035	0.044	0.031	0.04	0.041
4/5AV2	0.025	0.035	0.029	0.036	0.033	0.043	0.045	0.04	0.031
5BV1	0.027	0.020	0.047	0.049	0.044	0.050	0.025	0.03	0.043

Amended Text

All model convergence values in Table 12-41 have been replaced with the data for the A27 without Worthing and Lancing scenario, whereas the data originally presented was a repeat of the data for the A27 with Worthing and Lancing scenario. Revised Table 12-41 presented below. All data within the table is revised and shown in bold red font.

Section	Paragraph / Table	Location
12	Table 12-41	Whole table

Table 12-41: Core fixed demand scenario – convergence criteria

	2026			2041			2051		
	AM	IP	PM	AM	IP	PM	AM	IP	PM
	Final iteration								
DM	66	44	49	39	57	67	70	77	92
1V5	43	140	89	37	71	64	51	53	89
1V9	45	59	91	40	68	61	52	52	62
3V1	58	33	95	48	45	50	47	66	96
4/5AV1	127	116	49	47	54	82	56	52	93
4/5AV2	64	94	53	41	56	48	47	58	75
5BV1	54	90	56	48	74	57	46	55	83
	Final Delta (δ)								
DM	0.0098	0.0152	0.0223	0.0320	0.0246	0.0300	0.0252	0.0249	0.0237
1V5	0.0375	0.0121	0.0174	0.0432	0.0276	0.0279	0.0502	0.0292	0.0366
1V9	0.0165	0.0112	0.0229	0.0516	0.0218	0.0544	0.0506	0.0256	0.0411
3V1	0.0118	0.0306	0.0778	0.0231	0.0305	0.0359	0.0348	0.0179	0.0189
4/5AV1	0.0264	0.0128	0.0279	0.0276	0.0265	0.0176	0.041	0.0363	0.0198
4/5AV2	0.0325	0.0145	0.0262	0.0515	0.0320	0.0402	0.0410	0.0273	0.0293
5BV1	0.0209	0.0133	0.0307	0.0406	0.0335	0.0352	0.0376	0.025	0.0254
	Final %Flow								
DM	99.1	99.2	99.4	98.8	98.9	99.6	98.7	98.4	99.6
1V5	99.3	98.3	98.0	98.8	99.3	99.5	99.2	99.4	99.5
1V9	99.3	98.8	98.8	98.7	99.1	99.3	99.2	98.9	99.2
3V1	99.0	98.6	98.9	98.8	98.6	99.3	98.6	99.3	99.7
4/5AV1	99.4	98.5	98.6	99.1	98.4	99.5	99.3	99.2	99.8
4/5AV2	99.0	98.2	98.6	98.8	98.9	99.0	99.3	99.5	99.5
5BV1	99.1	98.5	99.0	99.4	98.6	99.4	99.1	99.5	99.6
	Final %Gap								

Section	Paragraph / Table						Location		
12	Table 12-41						Whole table		
	2026			2041			2051		
	AM	IP	PM	AM	IP	PM	AM	IP	PM
DM	0.037	0.017	0.038	0.047	0.037	0.042	0.034	0.038	0.042
1V5	0.017	0.016	0.045	0.039	0.029	0.032	0.043	0.04	0.027
1V9	0.025	0.025	0.045	0.041	0.045	0.034	0.038	0.041	0.042
3V1	0.038	0.025	0.043	0.046	0.047	0.039	0.042	0.032	0.047
4/5AV1	0.019	0.010	0.048	0.038	0.031	0.047	0.031	0.030	0.048
4/5AV2	0.043	0.034	0.027	0.046	0.048	0.042	0.046	0.035	0.041
5BV1	0.014	0.018	0.038	0.028	0.032	0.032	0.048	0.032	0.028
Explanation									
This error was due to a data transposition issue. The assessments undertaken, and results and conclusions, were made on the basis of the correct data.									

2.2. ComMA: Appendix D - Model Outputs

Erratum 1

Section	Paragraph / Table	Location
Appendix D	D-1 to D-3	Data within Tables
Existing Text		
<p>Appendices D-1 to D-3 model matrix and convergence data tables are incorrectly labelled for options 4/5AV1 and 4/5AV2. The data is switched. This applies to the following tables:</p> <p>Table D-1-5: Detailed comparison of forecast matrices by user class: Option 4/5Av1</p> <p>Table D-1-6: Detailed comparison of forecast matrices by user class: Option 4/5Av2</p> <p>Table D-2-4: Detailed fixed demand scenario convergence criteria: Option 4/5Av1</p> <p>Table D-2-5: Detailed fixed demand scenario convergence criteria: Option 4/5Av2</p> <p>Table D-3-4: Detailed core variable demand scenario convergence criteria: Option 4/5Av1</p> <p>Table D-3-5: Detailed core variable demand scenario convergence criteria: Option 4/5Av2</p>		
Amended Text		
<p>Revised table names within appendices D-1 to D-3 for options 4/5AV1 and 4/5AV2. The replaced text is shown as red strikethrough.</p> <p>Table D-1-5: Detailed comparison of forecast matrices by user class: Option 4/5Av1v2</p>		

Section	Paragraph / Table	Location
Appendix D	D-1 to D-3	Data within Tables
<p>Table D-1-6: Detailed comparison of forecast matrices by user class: Option 4/5Av2V1</p> <p>Table D-2-4: Detailed fixed demand scenario convergence criteria: Option 4/5Av4V2</p> <p>Table D-2-5: Detailed fixed demand scenario convergence criteria: Option 4/5Av2V1</p> <p>Table D-3-4: Detailed core variable demand scenario convergence criteria: Option 4/5Av4V2</p> <p>Table D-3-5: Detailed core variable demand scenario convergence criteria: Option 4/5Av2V1</p>		
Explanation		
Data transposition / labelling issue. The assessments undertaken, and results and conclusions, were made on the basis of the correct data.		