

# **A585 Windy Harbour to Skippool Improvement Scheme**

**TR010035**

## **6.10.2 ES Appendix 10.2: Driver Stress Calculations**

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009

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Infrastructure Planning

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The Infrastructure Planning  
(Applications: Prescribed Forms and  
Procedure) Regulations 2009

**A585 Windy Harbour to Skippool  
Improvement Scheme**  
Development Consent Order 201[ ]

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**ES APPENDIX 10.2: DRIVER STRESS CALCULATIONS**

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## 1 DRIVER STRESS CALCULATIONS

### 1.1 Base 2015

Table 10-1: Base 2015 - A585, between Windy Harbour Junction and the junction with Fleetwood Road South

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4280_4509	Garstang New Road	Single-Carriageway	925	43	High	1118	28	High
4509_4280	Garstang New Road	Single-Carriageway	1102	50	High	1129	58	High
4270_4509	Garstang New Road	Single-Carriageway	1102	50	High	1129	58	High
4270_4505	Mains Lane	Single-Carriageway	738	36	High	984	37	High
4503_4505	Mains Lane	Single-Carriageway	992	21	High	836	36	High
4503_4500	Mains Lane	Single-Carriageway	713	50	Moderate	985	58	Moderate
4500_4507	Mains Lane	Single-Carriageway	713	38	High	985	43	High
4507_4497	Mains Lane	Single-Carriageway	713	38	High	985	43	High
4497_4305	Mains Lane	Single-Carriageway	717	25	High	992	27	High
4305_4310	Mains Lane	Single-Carriageway	1272	38	High	1320	44	High
4511_4310	Mains Lane	Single-Carriageway	1251	35	High	1371	34	High
4511_4311	Mains Lane	Single-	1273	17	High	1320	34	High

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4311_4511	Mains Lane	Single-Carriageway	1251	41	High	1371	34	High

Table 10-2: Base 2015 - A585 Garstang Road East at its junction with the A585 to its junction with Hardhorn Road, Poulton-le-Fylde

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4270_4501	Garstang Road East	Single-Carriageway	336	58	Moderate	301	66	Moderate
4501_4260	Garstang Road East	Single-Carriageway	298	58	Moderate	298	66	Moderate
4260_4501	Garstang Road East	Single-Carriageway	528	46	Moderate	450	49	Moderate
4254_4253	Garstang Road East	Single-Carriageway	618	26	High	593	26	Moderate

Table 10-3: Base 2015 - A588 Shard Road from the A585 to Hambleton

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4305_4320	Shard Road	Single-Carriageway	447	40	Moderate	725	42	High



Table 10-4: Base 2015 - Lodge Lane between the A585 to Singleton

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4228_4270	Lodge Lane	Single-Carriageway	139	28	Moderate	181	15	Moderate
4228_4270	Lodge Lane	Single-Carriageway	139	28	Moderate	181	15	Moderate

Table 10-5: Base 2015 - A588 Breck Road between the A585 at Skippool to Poulton-le-Fylde

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4264_4269	Breck Road	Single-Carriageway	691	19	High	860	15	High
4269_4281	Breck Road	Single-Carriageway	490	29	Moderate	527	27	Moderate
4281_4289	Breck Road	Single-Carriageway	454	27	Moderate	476	21	Moderate
4289_4307	Breck Road	Single-Carriageway	587	26	Moderate	658	24	High
4307_4311	Breck Road	Single-Carriageway	640	42	High	764	20	High

## 1.2 Do-Minimum 2037

Table 10-6: Do-Minimum 2037 - A585, between Windy Harbour Junction and the junction with Fleetwood Road South

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4280_4509	Garstang New Road	Single-Carriageway	1257	43	High	1356	28	High
4509_4270	Garstang New Road	Single-Carriageway	1257	42	High	1356	17	High
4270_4505	Mains Lane	Single-Carriageway	949	34	High	1063	36	High
4505_4503	Mains Lane	Single-Carriageway	932	46	High	1062	49	High
4503_4500	Maine Lane	Single-Carriageway	934	50	High	1064	58	High
4500_4507	Mains Lane	Single-Carriageway	934	37	High	1064	42	High
4507_4497	Mains Lane	Single-Carriageway	934	37	High	1064	42	High
4497_4305	Mains Lane	Single-Carriageway	939	20	High	1071	24	High
4305_4310	Mains Lane	Single-Carriageway	1487	37	High	1385	43	High
4310_4511	Mains Lane	Single-Carriageway	1487	34	High	1385	42	High
4511_4311	Mains Lane	Single-Carriageway	1488	13	High	1385	34	High
4311_4337	Amounderness Way	Single-Carriageway	1101	43	High	1116	38	High

Table 10-7: Do-Minimum 2037 - A586 Garstang Road East at its junction with the A585 to its junction with Hardhorn Road, Poulton-le-Fylde

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4270_4501	Garstang Road	Single-Carriageway	537	57	Moderate	448	65	Moderate
4501_4260	Garstang Road	Single-Carriageway	495	52	Moderate	446	61	Moderate
4260_7100	Garstang Road	Single-Carriageway	494	46	Moderate	446	46	Moderate
7100_4254	Garstang Road	Single-Carriageway	627	30	High	684	30	High
4254_4253	Garstang Road	Single-Carriageway	742	24	High	709	22	High

Table 10-8: Do-Minimum 2037 - A588 Shard Road from the A585 to Hambleton

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4305_4320	Shard Road	Single-Carriageway	473	59	Moderate	822	60	High

Table 10-9: Do-Minimum 2037 - Lodge Lane between the A585 to Singleton

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4228_4270	Lodge Lane	Single-Carriageway	149	24	Moderate	219	13	Moderate

Table 10-10: Do-Minimum 2037 - A588 Breck Road between the A585 at Skippool to Poulton-le-Fylde

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4311_4307	Breck Road	Single-Carriageway	647	32	High	421	41	Moderate
4307_4289	Breck Road	Single-Carriageway	572	32	Moderate	380	39	Moderate
4281_4289	Breck Road	Single-Carriageway	691	29	High	628	22	High
4269_4281	Breck Road	Single-Carriageway	736	29	High	685	27	High
4264_4269	Breck Road	Single-Carriageway	818	19	High	858	15	High

### 1.3 Do Something 2037

Table 10-11: Do-Something 2037 - A585, between Windy Harbour Junction and the junction with Fleetwood Road South

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4280_7022	1B_Link	Dual-Carriageway	695	113	Low	787	113	Low
7022_7020	1B_Link	Dual-Carriageway	695	90	Low	787	87	Low
7020_7028	1B_Link	Dual-Carriageway	494	112	Low	643	111	Low
7028_7075	1B_Link	Dual-Carriageway	477	34	Moderate	584	33	Moderate
7075_7078	1B_Link	Dual-Carriageway	477	47	Moderate	584	46	Moderate
7078_7021	1B_Link	Dual-Carriageway	775	62	Moderate	780	62	Moderate
7021_7016	1B_Link	Dual-Carriageway	705	24	Moderate	733	22	Moderate
7016_7070	1B_Link	Dual-Carriageway	485	48	Moderate	508	48	Moderate
7070_7024	1B_Link	Dual-Carriageway	618	65	Moderate	649	65	Moderate
7024_4337	1B_Link	Dual-Carriageway	618	29	Moderate	648	30	Moderate
4270_4505	Mains Lane	Single Carriageway	103	34	Moderate	93	42	Moderate
4505_4503	Mains Lane	Single Carriageway	67	49	Moderate	92	53	Moderate

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4503_4500	Mains Lane	Single Carriageway	69	51	Moderate	93	59	Moderate
4500_4507	Mains Lane	Single Carriageway	69	41	Moderate	93	48	Moderate
4507_4497	Mains Lane	Single Carriageway	69	41	Moderate	93	48	Moderate
4497_4305	Mains Lane	Single Carriageway	74	20	Moderate	99	25	Moderate
4305_7019	Mains Lane	Single Carriageway	795	58	Moderate	511	59	Moderate
7019_7077	Mains Lane	Single Carriageway	795	65	Moderate	511	65	Moderate

Table 10-12: Do-Something 2037 - A586 Garstang Road East at its junction with the A585 to its junction with Hardhorn Road, Poulton-le-Fylde

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4270_4501	Garstang Road East	Single Carriageway	145	58	Moderate	136	66	Moderate
4501_4270	Garstang Road East	Single Carriageway	78	16	Moderate	18	12	Moderate
4501_7020	Garstang Road East	Single Carriageway	58	19	Moderate	129	18	Moderate
7022_4260	Garstang Road East	Single Carriageway	595	45	Moderate	506	48	Moderate

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4260_7100	Garstang Road East	Single Carriageway	594	46	Moderate	506	46	Moderate
7100_4254	Garstang Road East	Single Carriageway	684	29	High	680	30	High
4254_4253	Garstang Road East	Single Carriageway	760	23	High	715	22	High

Table 10-13: Do-Something 2037 - A588 Shard Road from the A585 to Hambleton

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4305_4320	Shard Road	Single Carriageway	434	59	Moderate	827	60	High

Table 10-14: Do-Something 2037 - Lodge Lane between the A585 to Singleton

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
4270_4228	Lodge Lane	Single Carriageway	309	56	Moderate	216	57	Moderate

Table 10-15: Do-Something 2037 - A588 Breck Road between the A585 at Skippool to Poulton-le-Fylde

Link ID	Location	Type of Road	Average AM peak hourly flow/ lane	AM peak average speed (kmph)	AM peak driver stress	Average PM peak hourly flow / lane	PM peak average speed (kmph)	PM peak driver stress
7025_7026	Breck Road	Single Carriageway	652	49	High	522	49	Moderate
7026_4307	Breck Road	Single Carriageway	652	44	High	522	44	Moderate
4307_4289	Breck Road	Single Carriageway	569	32	Moderate	471	38	Moderate
4281_4289	Breck Road	Single Carriageway	535	30	Moderate	560	22	Moderate
4269_4281	Breck Road	Single Carriageway	573	29	Moderate	610	27	High
4264_4269	Breck Road	Single Carriageway	719	19	High	838	15	High



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