

## **SERVICE STANDARD 5**

### **Traffic Signal/Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure**

#### **1. REQUIRED OUTCOMES**

The Service Provider shall comply with the provisions of this Service Standard 5 so as to ensure that throughout the Term (except where otherwise indicated in Table 5) in relation to the Project Network:

- 1.1 at the end of the Core Investment Period and thereafter until the expiry of the Term, no component of any Traffic Signal/Control Infrastructure is more than thirty (30) years old;
- 1.2 all Traffic Signal/Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure shall be free from faults and in operation at all times;
- 1.3 all Traffic Signal/Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is maintained in accordance with relevant Highway Standards;
- 1.4 assistance is provided to the Authority's Urban Traffic Control Team to minimise delays on the Project Network; and
- 1.5 access is provided to the Urban Traffic Control Team and their specialist contractors to the Traffic Signal/Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure in order to ensure the Traffic Signal/Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure remains operational.

#### **2. PERFORMANCE REQUIREMENTS**

The Service Provider shall perform the Traffic Signal/Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure Service in accordance with the Performance Requirements set out in Table 5.

**TABLE 5**

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.1	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure that in each Milestone Year at least the applicable percentage of Traffic Signal / Control Infrastructure Sites as set out in Schedule 35 (Milestones) is less than thirty (30) years old.	N/A	N/A	Milestone Adjustment	N/A	Inspect
5.2	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure that the oldest component of each Traffic Signal / Control Infrastructure Site is not more than thirty (30) years old.	N/A	3 months		5 Milestone Years	Inspect
5.3	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure on Priority Sites is free from Urgent Faults within rectification timescale unless Authority Approval to an alternative timescale has been obtained.	90 Minutes	1 hour		N/A	Inspect
5.4	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure on Priority Sites is free from Non Urgent Faults.	1 day	12 hours		N/A	Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.5	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure not on Priority Sites is free from Urgent Faults within rectification timescale unless Authority Approval to an alternative timescale has been obtained.	3 hours	1 hour		N/A	Inspect
5.6	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure not on Priority Sites is free from Non Urgent Faults.	7 days	1 day		N/A	Inspect
5.7	Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Intelligent Transport Systems (ITS) Infrastructure is free from Urgent Faults within rectification timescale unless Authority Approval to an alternative timescale has been obtained.	90 Minutes	1 hour		N/A	Inspect
5.8	Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Intelligent Transport Systems (ITS) Infrastructure is free from Non Urgent Faults.	1 day	12 hours		N/A	Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.9	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure are Physically Aligned Correctly in accordance with the relevant guidance contained in the Highway Standards.	90 Minutes	1 hour		N/A	Service Inspect
5.10	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is visible and legible in accordance with the relevant guidance contained in the Highway Standards	90 Minutes	1 hour		N/A	Service Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.11	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is not obscured by Vegetation.	1 day	12 hours		N/A	Service Inspect
5.12	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure each time clock in Traffic Signal/ Control Infrastructure is set correctly at all times and adjusted at the start and end of British Summer Time.	1 hour	1 hour		N/A	Inspect
5.13	Urban Traffic Control (UTC) and Urban Traffic Management and Control (UTMC)	The Service Provider shall ensure that each connection of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure to Urban Traffic Control (UTC) Systems and Urban Traffic Management and Control (UTMC) Systems is operational at all times and, if not, shall rectify within rectification timescale unless Authority Approval to an alternative timescale has been obtained.	90 Minutes	1 hour		N/A	Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.14	Traffic Signal/ Control Infrastructure	The Service Provider shall ensure that each Controlled Pedestrian Crossing included within Traffic Signal / Control Infrastructure complies with the requirements of Annexure 2 to this Service Standard 5 where appropriate.	1 month	1 month		5 Milestone Years	Service Inspect
5.15 (a)	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure installed by the Service Provider is installed in accordance with relevant Highway Standards.	N/A	1 day		N/A	Inspect
5.15 (b)	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is maintained in accordance with relevant Highway Standards.	N/A	1 day		N/A	Service Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.16	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is Structurally Sound.	1 month	1 month		5 years	Service Inspect
5.17	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is True and Plumb.	1 month	1 month		1 year	Service Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.18	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is Free from Corrosion.	1 month	1 month		5 Milestone Years	Service Inspect
5.19	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) is Free From Any Breakdown In The Paint Or Protective System.	1 year	1 month		2 years	Service Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.20	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each Loop Detector or item of Detector Equipment is in operation at all times.	10 Business Days	10 Business Days		See Annexure 3	inspect
5.21	Traffic Signal/ Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure and its supporting infrastructure has a current electrical certificate in accordance with the relevant Highway Standards.	N/A	1 month		1 year	Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.22	Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	Subject to any requirements contained within any relevant Highway Standards, the Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is finished black unless Authority Approval has been obtained for an alternative colour.	1 month	1 month		5 Milestone Years	Service inspect
5.23	Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure, is individually identified and clearly displays the unique reference for that item of Apparatus.	1 month	1 month		5 Milestone Years	Service inspect
5.24	Health and Safety	The Service Provider shall ensure that the Traffic Signal/Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure Service is delivered in accordance with Clause 37 and 38 and the Service Provider Health and Safety Manual.	N/A	1 day		N/A	Inspect

	<b>Service Delivery Output Element</b>	<b>Performance Requirement</b>	<b>Rectification Period</b>	<b>Repeat Period</b>	<b>Adjustment Type</b>	<b>Grace Period</b>	<b>Monitoring Methodology</b>
5.25	Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure	The Service Provider shall ensure that each item of Traffic Signal / Control Infrastructure and Intelligent Transport Systems (ITS) Infrastructure is Clean.	1 month	1 month		1 year	Service Inspect
5.26	Traffic Signal / Control Infrastructure	The Service Provider shall rectify all Snagging Items in relation to each Traffic Signal / Control Infrastructure Site within two (2) months of such Traffic Signal / Control Infrastructure Site receiving a Certificate of Compliance.	N/A	1 month		1 year	Inspect

## ANNEXURE 1 TO SERVICE STANDARD 5

### Priority Sites

Site No.	Location
003	Heeley Tidal Flow System
009	Attercliffe Common / Broughton Lane
013	Barnsley Road / Firth Park Road
014	Prince of Wales Road / Main Road
019	Furnival Road / Pinstone Street
026	Inner Relief Road - Corporation Street / Nursery Street
051	Prince of Wales Road / City Road
053	Inner Relief Road - Penistone Road / Hoyle Street
062	Langsett Road / Holme Lane
064	Upper Hanover Street / Glossop Road
065	Ridgeway Road / Hurlfield Road
080	Penistone Road / Owlerton Green
081	Greenland Road / Shepcote Lane
089	Commercial Street / Fitzalan Square
117	Ridgeway Road / White Lane
168	Inner Relief Road – Cutlers Gate / Wicker
209	Fulwood Road / Manchester Road
210	Fulwood Road / Glossop Road
229	Ridgeway Road / Gleadless Road
240	Park Square Roundabout
249	Granville Square Roundabout
254	Middlewood Road / Leppings Lane
260	Birley Moor Road / Sheffield Road
282	Brookhill Roundabout
334	Inner Relief Road – Shalesmoor / Bridge Street
335	Inner Relief Road – Shalesmoor / Bridgehouses
358	Hoyle Street / Malinda Street
380	Castle Square Roundabout
431	Sheffield Parkway / Inner Ring Road

Site No.	Location
432	Inner Relief Road – Cutlers Gate / Furnival Road
493	Inner Relief Road – Shalesmoor / Corporation Street
495	Inner Relief Road – Cutlers Gate / Savile Street

## **ANNEXURE 2 TO SERVICE STANDARD 5**

Controlled Pedestrian Crossings must be fitted with both tactile and audible indicators, in accordance with the requirements for Audible & Tactile Signals at Pelican Crossings, TAL 4/91 and Audible & Tactile Signals at Signal Controlled Junctions, TAL 5/91, except where it would be unsafe to install audible indicators (either standard or 'bleep and sweep') or where local objections have led to their removal. All Controlled Pedestrian Crossings should have tactile paving and dropped kerbs in accordance with the Authority's Standard Detail Drawing for Controlled Crossings.