

Redlined BSCP520 text for CP1457 'Changes to BSCP520 to support the introduction of Generic LED Charge Codes'

This CP proposes changes to sections 1.2.1, 1.2.5, 1.7.2, 3.1, 3.2, 3.3.1, 3.12, 4.3 and 4.5.3. We have redlined these changes against Version 24.0, which will go live as part of the February 2016 Release.

There is no impact on any other part of this document for this CP.

1. Introduction

1.2 Main Users of Procedure and their Responsibilities

Amend section 1.2.1 as follows:

1.2.1 UMSO Responsibilities

Where an UMS has been agreed, each UMSO shall be responsible for the following:-

- (a) where the Detailed Inventory is subject to HH trading, providing a copy of the Summary Inventory and/or CMS Control File (as appropriate) to the appointed MA. Agreed updates to the Summary Inventory and/or CMS Control File (as appropriate) will be similarly passed to the appointed MA;
- (b) providing Unmetered Supply Certificates;
- (c) requesting additional MSIDs from the SMRA where additional inventory items need to be allocated to alternative SSCs and associated Profile Class and passing details of all MSIDs and the associated Meter Timeswitch Class and Profile Class to the Supplier for registration;
- (d) where the Detailed Inventory is subject to NHH trading, calculating initial and revised EACs and submitting them to the appointed Supplier and NHHDC;
- (e) informing the Supplier and MA of the type of EM (i.e. whether passive or dynamic) to be used in the LDSO's area;
- (f) agreeing with the MA the location of any associated photo-electric cell unit (PECU) arrays in accordance with the siting procedures in 4.6.1.1;
- (g) agreeing with the MA the latitude and longitude information for the installed Apparatus for each Sub-Meter where an EM is being used;
- (h) providing any other additional information required to enable the Supplier to determine the Distribution Use of System (DUoS) charges;
- (i) for supporting the Trading Dispute process as required by Section W of the Code;

- (j) for responding to any queries raised by the Panel, Supplier, the Supplier Volume Allocation Agent, the Data Collector, the Meter Administrator and / or the BSC Auditor;
- (k) providing Suppliers with the data that will enable them to fulfil their obligations under the Code;
- (l) notifying Suppliers on discovering that any Settlement data for which the UMSO is responsible is potentially incorrect or missing;
- (m) retaining Settlement data in accordance with this BSCP and Party Service Line (PSL) 100 'Non Functional Requirements for Licensed Distribution System Operators and Party Agents';
- (n) ensuring that the Customer continues to comply with the conditions for an Unmetered Supply;
- (o) issuing an annual spreadsheet containing all UMS EACs for each MSID split by Settlement Register (using the appropriate Average Fraction of Yearly Consumption) to Suppliers each June, and providing confirmation to BSCCo. that this process has occurred;
- (p) resending the correct EAC(s) to the NHHDC upon instruction by the Supplier if Supplier identifies a discrepancy between EACs received from NHHDCs to those received from the UMSO; and
- (q) validating all Charge Codes, ~~and~~ Switch Regimes ~~and Valid Dimming Combinations~~ against the Operational Information Document (OID) and associated spreadsheets ~~and the Valid Dimming Combination spreadsheet.~~

Amend section 1.2.5 as follows:

1.2.5 Approval of Categories of Apparatus, Charge Codes and Switch Regimes

The Panel, or its nominated representatives, approve additions or alterations to the categories of Apparatus, Charge Codes and their associated load rating (and dimming level load rating if applicable), ~~and~~ Switch Regimes ~~and Valid Dimming Combinations~~ in respect of static dimming equipment. Proposals for approval, and for load research (regarding associated load ratings and/or dimming level load rating) to be initiated, will be recommended by the Balancing and Settlement Code Company (BSCCo) to the Panel for approval. The Panel, or its nominated representatives, may request that the Unmetered Supplies User Group (UMSUG) meets from time to time to discuss issues relating to profiles, Switch Regimes, SSC, EACs, Equivalent Meters, protocols, Charge Codes and general UMS issues.

The Panel, or its nominated representatives, shall agree (and may from time to time amend) the requirements for test data from applicants for Charge Codes and Switch Regimes. BSCCo will from time to time update the OID to provide applicants with guidance on these requirements.

BSCCo will be responsible for constructing Charge Codes and Switching Regimes, ~~and defining Valid Dimming Combinations,~~ in accordance with this BSCP and with the conventions agreed (and from time to time amended) by the Panel or its nominated representatives. BSCCo will periodically update the OID to provide applicants with guidance on any recent additions or amendments to these conventions. BSCCo will be responsible for the notification of Panel decisions.

BSCCo will process applications and construct Charge Codes where the intention of the applicant is to connect or market the Apparatus nationally. For clarity, 'nationally' means in GSP Groups controlled by more than one UMSO. Where the Apparatus is intended for use solely within a single UMSO's GSP Group(s), an application to the Panel via BSCCo is not required.

1.7 Acronyms and Definitions

Amend section 1.7.2 as follows:

1.7.2 Definitions

Full definitions of the above acronyms and other defined terms used in this BSCP are, where appropriate, included in the Code. For clarification, definitions are provided below for terms specifically associated with UMS:-

“Apparatus” means all equipment in which electrical conductors are used, supported or of which they may form part;

“Applicant” means a person applying to the BSCCo for a Charge Code, Switch Regime code or for Equivalent Meter approval;

“Astronomical Almanac” means the Astronomical Almanac published annually by the Stationery Office or other suitable publication;

“Central Management System” means a system that is able to dynamically control and manage the electrical load used by Apparatus registered as an Unmetered Supply;

“CMS Control File” means a summarised version (as described in 4.5.3.3) of the Detailed Inventory of CMS controlled Apparatus provided to the UMSO by the Customer where appropriate;

“Charge Code” means a 13 digit numeric code assigned to unmetered Apparatus that specifies the associated circuit watts and other technical information for the Apparatus;

“Dawn” means 30 minutes before Sunrise;

“Detailed Inventory” means an inventory of Apparatus as specified in the Section titled Standard File Format for Detailed Inventories in the Operational Information Document;

“Dusk” means 30 minutes after Sunset;

“Equivalent Meter” means the hardware and software as defined in Section 1.2.6;

“Equivalent Meter UMS” means HH Unmetered Supplies;

~~“Invalid Dimming Combination” means a combination of Switch Regimes and Charge Codes that has not been approved for use in association with multi-level static dimming devices.~~

“MA System” means the software and hardware operated by the Meter Administrator and used to calculate half hourly consumption;

“PECU array” means the hardware described in Appendix 4.5;

“Percentage Dimming Level” means the percentage of its full load circuit loading (watts) at which the Apparatus is operating;

“Sub-Meter” means that within an Equivalent Meter there is more than one PECU array or more than one Summary Inventory or CMS Control File associated with an MSID;

“Summary Inventory” means a summarised version (as described in 4.6.5) of the Detailed Inventory provided to the UMSO by the Customer excluding the CMS controlled Apparatus where appropriate;

“Sunrise” means the time when the sun’s apparent disc is below and tangential to the horizon at sea level and to the east of the observer;

“Sunset” means the time when the sun’s apparent disc is below and tangential to the horizon at sea level and to the west of the observer;

“Switch Regime” means a 3 digit numeric code assigned to unmetered Apparatus that specifies the switching times and other technical information for the Apparatus;

~~“Valid Dimming Combination” means an approved combination of Switch Regimes and Charge Codes for use in association with multi-level static dimming devices.~~

3. Interface and Timetable Information

Amend section 3.1 as follows:

3.1 Establishment of a New UMS Inventory¹

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.1		Agree that the application for UMS meets the requirements of Section 1.1. Validate all Charge Codes and Switch Regimes against the Operational Information Document (OID) and associated spreadsheets and the Valid Dimming Combination spreadsheet. Agree the Detailed Inventory with the Customer.	UMSO.	Customer.	Signed UMS Connection Agreement. Customer's Approved Detailed Inventory.	Paper, fax or electronic media, as agreed.
3.1.2		Is UMS to be traded HH? If so, proceed to 3.1.3. If UMS not HH, proceed to 3.1.17.	UMSO.		Notification received from Supplier or Customer.	Internal Process.
3.1.3	If HH.	UMSO request new MSID.	UMSO.	SMRA.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.
3.1.4		SMRA Allocate MSID per UMS Certificate.	SMRA.			Internal Process
3.1.5		Create skeleton, record details of MSID in accordance with BSCP501. Send MSID(s) to UMSO.	SMRA.	UMSO.	P0171 Request Creation of UMS Skeleton SMRS Record.	Internal Process. Paper, fax or electronic media, as agreed.

¹ This process shall be followed where a new additional inventory is provided by the Customer.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.6		Complete UMS Certificate. Issue to Customer. Issue to Supplier, if appointed by the Customer earlier on in the process	UMSO.	Customer, Supplier.	P0170 HH Unmetered Supply Certificate.	Internal Process. Paper, fax or electronic media, as agreed.
3.1.7	On Customer or Supplier request	Request from the UMSO the type of EM (Passive or Dynamic) and agree the location, if any, of the PECU array(s) and other factors relevant to the PECU Array Siting Procedure in 4.6.1.1.	MA	UMSO.		Paper, fax or electronic media, as agreed.
3.1.8	Within 5 WD of 3.1.7	Agree the Sub-Meter ID(s), type of EM (Passive or Dynamic) and the location, if any, of the PECU array(s) in accordance with the provision of the PECU Array Siting procedures in 4.6.1.1. Provide latitude and longitude information to MA.	UMSO.	MA.	Type of EM and agreed latitude and longitude or geographic co-ordinates.	Paper, fax or electronic media, as agreed.
3.1.9		Send Supplier and registration details to SMRA.	Supplier.	SMRA.	D0055 Registration of Supplier to Specified Metering Point. Including MA MPID in MOA Id data item (J0178)	Electronic or other agreed method.
3.1.10		Record details for MSID in accordance with BSCP501.	SMRA.			Internal Process.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.11		Send appointment details and additionally EM details to relevant recipients.	Supplier.	MA. HHDC. HHDA.	D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties. D0153 Notification of Data Aggregator Appointment and Terms.	Electronic or other agreed method.
3.1.12	Within 5 WD following 3.1.11.	Send Summary Inventory details to MA.	UMSO.	MA.	Summary Inventory File and/or CMS Control File as appropriate.	Paper, fax or electronic media, as agreed.
3.1.13	Within 5 WD validate Summary Inventory against OID. If inventory fails validation.	Reject Summary Inventory and await new Summary Inventory.	MA.	UMSO.	List of invalid Charge eCodes and/or Switch Regimes-Invalid Dimming Combinations .	Electronic or other agreed method.
3.1.14	If Summary Inventory passes validation.	Input into EM and send copy of Summary Inventory extracted from the MA System to UMSO and to Customer.	MA.	UMSO, Customer.	Report of Summary Inventory and/or CMS Control File content	Internal Process. Paper, fax or electronic media, as agreed.
3.1.15	If unable to send HH data before SSD.	Inform the Supplier of an EM fault (as set out in 3.14.1).	MA.	Supplier. HHDC.		Electronic or other agreed method.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.16	Prior to SSD or Energisation Date whichever is later.	Liaise with HHDC to ensure data from EM can be processed.	MA.	HHDC.	D0003 Half Hourly Advances or Section 4.5.4 EM Output File ² (trial data see 3.15).	Electronic or other agreed method.
3.1.17	After 3.1.2 for NHH.	Request new MSID per SSC.	UMSO.	SMRA.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.
3.1.18		Allocate MSIDs per SSC per UMS Certificate. Create skeleton record details of MSIDs in accordance with BSCP501.	SMRA.			Internal Process.
3.1.19		Calculate EACs, complete UMS Certificate. Issue UMS Certificate to Customer and Supplier if appointed earlier on in the process.	UMSO.	Customer, Supplier	P0207 NHH Unmetered Supply Certificate.	Internal Process. Paper, fax or electronic media, as agreed.
3.1.20		Send Supplier and registration details to SMRA for all listed MSIDs.	Supplier.	SMRA.	D0055 Registration of Supplier to Specified Metering Point.	
3.1.21		Record details for all of the MSIDs in accordance with BSCP501.	SMRA.			Internal Process.
3.1.22		Send appointment details.	Supplier.	NHHDC. NHHDA.	D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0153 Notification of Data Aggregator Appointment and Terms.	Electronic or other agreed method.

² The EM Output file can only be used if a secure method of data transfer has been agreed between the MA and the HHDC,

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.23		Send split EAC, Profile Class and SSC details for each MSID.	UMSO.	Supplier, NHHDC.	D0052 Affirmation of Metering System Settlement Details.	Electronic or other agreed method.
3.1.24	On receipt of D0052.	Validate D0052.	NHHDC		In accordance with BSCP504 Non-Half Hourly Data Collection.	Internal Process.
3.1.25	If D0052 is invalid.	Send notification of invalid Metering System Settlement details.	NHHDC	UMSO, Supplier	D0310 Notification of Failure to Load or Receive Metering System Settlement Details.	Electronic or other agreed method.

Amend section 3.2 as follows:

3.2 Amendment to Inventory

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.1	When change(s) to unmetered Apparatus.	Send proposed revised Detailed Inventory to UMSO.	Customer.	UMSO.	Customer's proposed revised Detailed Inventory.	Paper, fax or electronic media, as agreed.
3.2.2		Ensure revision to the Detailed Inventory meets the requirements of Section 1.1 and also agree the revised Detailed Inventory with Customer.	UMSO.	Customer.	Customer's Approved Detailed Inventory with agreed EFD.	Paper, fax or electronic media, as agreed.
3.2.3	If HH following 3.2.2, when UMSO has agreed amendment to Summary Inventory with Customer, then within 5 WD.	Send revised Summary Inventory details to MA.	UMSO.	MA.	Summary Inventory File and/or CMS Control File as appropriate.	Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.4	If items exist in the updated Summary Inventory and/or CMS Control File (as appropriate) for which no data on load and switching times have been defined.	Reject updated Summary Inventory and/or CMS Control File (as appropriate), listing invalid <u>Charge eCodes</u> and/or Invalid Dimming Combinations <u>Switch Regimes</u> to the UMSO and continue to use or re-apply previous Summary Inventory and/or CMS Control File (as appropriate).	MA.	UMSO.	List of invalid <u>Charge eCodes</u> and/or <u>Switch Regimes</u> Invalid Dimming Combinations .	Electronic or other agreed method.
3.2.5	Within 5 WD of receipt or by the EFD.	Input and send copy of Summary Inventory and/or CMS Control File (as appropriate) extracted from the MA System to UMSO and Customer.	MA.	UMSO, Customer.	Report of Summary Inventory and/or CMS Control File content.	Internal Process. Paper, fax or electronic media, as agreed.
3.2.6	After 3.2.2 for NHH.	If required request additional MSID(s) per SSC.	UMSO.	SMRA.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.
3.2.7		Where appropriate allocate additional MSID(s) per SSC. Create skeleton record details of MSID(s) in accordance with BSCP501.	SMRA.			Internal Process.
3.2.8		Send MSID(s) to UMSO.	SMRA.	UMSO.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.
3.2.9		Calculate revised EACs. Complete UMS Certificate. Issue to Customer and Supplier.	UMSO.	Customer, Supplier.	See Appendix 4.4. P0207 NHH Unmetered Supply Certificate.	Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.10		As required, for any MSID(s) with zero EACs follow de-energisation and Disconnection process as set out in (3.7) and (3.8) respectively. Send to SMRA for any additional listed MSIDs.	Supplier.	SMRA.	D0055 Registration of Supplier to Specified Metering Point.	
3.2.11		Record details in accordance with BSCP501.	SMRA.			Internal Process.
3.2.12		Where appropriate, send appointment details.	Supplier.	NHHDC. NHHDA.	D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0153 Notification of Data Aggregator Appointment and Terms.	Electronic or other agreed method.
3.2.13		Send revised split EAC, Profile Class and SSC details for each MSID.	UMSO.	Supplier, NHHDC.	D0052 Affirmation of Metering System Settlement Details.	Electronic or other agreed method.
3.2.14	On receipt of D0052.	Validate D0052.	NHHDC		In accordance with BSCP504 Non-Half Hourly Data Collection.	Internal Process.
3.2.15	If D0052 is invalid.	Send notification of invalid Metering System Settlement details.	NHHDC	UMSO, Supplier	D0310 Notification of Failure to Load or Receive Metering System Settlement Details.	Electronic or other agreed method.

3.3 Change of Supplier

Amend section 3.3.1 as follows:

3.3.1 Half Hourly Trading

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1.1	By SSD – 1 WD.	Establish with the UMSO that the UMS meets the requirements of Section 1.1.	New Supplier.	UMSO.	UMS Connection Details.	Paper, fax or electronic media, as agreed.
3.3.1.2		Send agreed UMS Certificate	UMSO	New Supplier	P0170 HH Unmetered Supply Certificate.	Electronic or other agreed method.
3.3.1.3		Send Supplier and registration details to SMRA for all listed MSIDs.	New Supplier.	SMRA.	D0055 Registration of Supplier to Specified Metering Point.	Electronic or other agreed method.
3.3.1.4		Send appointment details to relevant recipients.	Supplier.	HHDC. HHDA. MA.	D0148 Notification of Change to Other Parties. D0155 Notification of New Meter Operator or Data Collector Appointment and Terms. D0153 Notification of Data Aggregator Appointment and Terms. D0155 Notification of New Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties.	Electronic or other agreed method.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1.5	If Change of Supplier concurrent with changes to EM or PECU Array siting	Agree the Sub-Meter ID(s), type of EM (Passive or Dynamic) and the location, if any, of the PECU array(s) in accordance with the provision of the PECU Array siting procedures in 4.6.1.1. Provide latitude and longitude information to MA.	UMSO.	MA.	Type of EM and agreed latitude and longitude or geographic co-ordinates.	Paper, fax or electronic media, as agreed.
3.3.1.6	If New MA	See Sections 3.4.3 to 3.4.5				
3.3.1.7	If New DC	See Sections 3.5.2 to 3.5.3				
3.3.1.8		Send appointment termination details.	Old Supplier.	Old MA. Old HHDC. Old HHDA.	D0151 Termination of Appointment or Contract by Supplier.	Electronic or other agreed method.
3.3.1.9		Send Summary Inventory and/or CMS Control File (as appropriate) to MA. See Section 3.4.3	UMSO.	MA.	Summary Inventory File and/or CMS Control File as appropriate.	Paper, fax or electronic media, as agreed.
3.3.1.10	If items exist in the updated Summary Inventory and/or CMS Control File (as appropriate) for which no data on load and switching times have been defined.	Reject Summary Inventory and/or CMS Control File (as appropriate), listing invalid <u>Charge eCodes</u> and/or <u>Switch Regimes Invalid Dimming Combinations</u> to the UMSO and continue to use or re-apply previous Summary Inventory and/or CMS Control File (as appropriate).	MA.	UMSO.	List of invalid <u>Charge eCodes</u> and/or <u>Switch Regimes Invalid Dimming Combinations</u> .	Internal Process Paper, fax or electronic media, as agreed.
3.3.1.11	If New MA, Prior to SSD or Energisation Date whichever is later.	Liaise with HHDC to ensure data from EM can be processed.	MA.	HHDC.	D0003 Half Hourly Advances OR Section 4.5.3 EM Output File ² or trial data (see 3.15).	Electronic or other agreed method.
3.3.1.12	If concurrent with change of MA	Liaise with old HHDC to ensure data from EM is obtained up to end date.	Old MA.	Old HHDC.		Electronic or other agreed method.

Amend section 3.12 as follows:

3.12 Approval of New Switch Regimes, and/or Charge Codes ~~and/or Valid Dimming Combinations~~

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.12.1	When required	Receive application for a new Charge Code, <u>and/or</u> Switch Regime and/or Valid Dimming Combination .	Applicant ³	BSCCo	Details of new Apparatus, <u>or</u> Switch Regime or dimming regime .	Electronic or other method as agreed.
3.12.2	Following 3.12.1, if more information is required	Request more testing evidence or additional information from Applicant.	BSCCo	Applicant	Details of information or evidence required.	Electronic or other method as agreed.
3.12.3	Following 3.12.1 or 3.12.2 (if required)	Construct Charge Codes, <u>and/or</u> Switch Regime and/or Valid Dimming Combination (seeking input from industry experts if required) Or	BSCCo		Details of new Apparatus, <u>or</u> Switch Regime or dimming regime .	Internal Process.
		Inform Applicant that a suitable Charge Code, <u>and/or</u> Switch Regime and/or Valid Dimming Combination cannot be constructed and discuss next steps.	BSCCo	Applicant	Notification and possible next steps.	Electronic or other method as agreed.
3.12.4	Following 3.12.3 if Charge Code, <u>and/or</u> Switch Regime and/or Valid Dimming Combination constructed	Raise and progress MDD change in accordance with BSCP509 in relation to proposed new Charge Code, <u>and/or</u> Switch Regime and/or Valid Dimming Combination .	BSCCo		BSCP509.	Internal Process.

³ Although Charge Codes are published via MDD, "Applicant" in this case does not relate to MDD authorised signatories.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.12.5	Following 3.12.4 if Change to MDD is approved	If MDD change approved, publish approved Charge Code; <u>and/or</u> Switch Regime <u>and/or</u> Valid Dimming Combination on BSC Website.	BSCCo		BSC Website.	Internal Process.
3.12.6	Following 3.12.4 if change to MDD is not approved.	Inform Applicant of decision and discuss next steps.	BSCCo	Applicant	SVG decision.	Electronic or other method as agreed.

4. Appendices

Remove section 4.3 as follows:

4.3 ~~Valid Dimming Combinations~~Not used

~~Note that a Valid Dimming Combination is described in the OID and a complete list may be found on the Charge Codes and Switch Regimes page of the BSC Website in the Operational Information Valid Dimming Combination spreadsheet.~~

4.5 Calculation of EACs

Amend section 4.5.3 as follows:

4.5.3 Calculation of EACs for Temporary Supplies

Where an MSID is allocated for a temporary UMS which is being used for up to 3 or 4 periods of the year only (e.g. Christmas lighting), the EAC shall be calculated as if it was connected throughout the year. For avoidance of doubt it should be noted that the Settlement processes will not settle the full amount of the annualised EAC but a proportion of the EAC that relates to when the MSID is energised. It shall be assumed that there are 365 days in the year, i.e. leap years shall be disregarded and the calculation therefore is as follows:

$$\text{EAC} = \text{Charging Code Circuit Watts} \times \text{Daily Burning Hours} \times 365$$

This EAC should then be split according to the percentages for a continuous (Category A) supply as shown in section 4.~~34~~.

The appointed Supplier shall follow the energisation and de-energisation procedures at the time(s) of connection and disconnection respectively to reflect the actual usage. Note that the process above is distinct from temporary supplies connected and disconnected frequently throughout the year on a random basis (e.g. temporary traffic lights), where the EAC shall be calculated using the agreed number of annual operating hours, in consultation with the Customer.