

## **Redlined extract of BSCP520 showing changes proposed by CP1204**

### **1.2.5 Approval of Categories of Apparatus, Load Rating and Time Switch Regime Codes**

The Panel, or its nominated representatives, approve additions or alterations to the categories of Apparatus (charging code), the associated load rating (and dimming level load rating if applicable) and the Time Switch Regime (TSR) codes. 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 Unmetered Supplies User Group (UMSUG) to the Panel for approval. However the UMSUG Chairman can agree Provisional Codes for new Apparatus until they are formally approved by the Panel. Where the UMSUG chairman does not believe it is possible to obtain approval of Codes because there is insufficient information to justify seeking approval for the proposed values, these Codes shall be termed Temporary. The UMSUG will report to BSCCo for issues relating to profiles, TSRs, SSCs and EACs, and to the Panel for matters relating to Equivalent Meters and protocols.

The Balancing and Settlement Code Company (BSCCo) will be responsible for co-ordinating the notification of information between the Panel and UMSUG, together with notification of Panel decisions.

### **1.3.1 Inventory of Unmetered Apparatus**

One of the criteria for agreeing an UMS is that the Customer shall be required to provide and maintain an accurate, detailed inventory as agreed with the UMSO.

Any requirement for additional classifications of Apparatus, load rating information and switching regimes shall be referred to the UMSUG Chairman.

Following approval by the Panel, the UMSO shall implement any revisions applicable to changes of classifications of Apparatus, switching regimes and load ratings (including dimming level load rating where appropriate) relating to UMS.

The UMSO shall also implement any Provisional Codes or Temporary Codes issued by the UMSUG Chairman.

Access to the inventory data shall be made available, on request, to the BSCCo, BSC Auditor, the Supplier or their Party Agents.

## 1.7.2 Definitions

Full definitions of the above acronyms and other defined terms used in this BSCP are, where appropriate, included in 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;

“Astronomical Almanac” means the Astronomical Almanac published annually by Her Majesty’s Stationary Office;

“Dawn” means 30 minutes before sunrise;

“Dusk” means 30 minutes after sunset;

“Equivalent Meter” means the hardware and software described in Appendix 4.5;

“FLARE Software” means the software originally owned and licensed by Eastern Group plc to create the Equivalent Meter data;

“LAMP Software” means the centrally developed software owned and licensed by St Clements Services Limited to create the Equivalent Meter data;

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

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

“Provisional Code” means a code that has been agreed by the UMSUG chairman and is awaiting formal approval.

“Sub-Meter” means that within an Equivalent Meter there is more than one PECU array or more than one summary inventory associated with an MSID;

“Sunrise” means the time when the suns 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 suns apparent disc is below and tangential to the horizon at sea level and to the west of the observer;

“Temporary Code” means a code that the UMSUG chairman believes it is not possible to obtain approval for because there is insufficient information to justify seeking approval.

#### 4.4.1 Calculation of EACs for Apparatus other than storage heating

- a) For each load description and switch regime combination multiply the rating in circuit watts of the Apparatus by the applicable Percentage Dimming Level of the Apparatus by the number of items of that Apparatus in the inventory by the annual operating hours of the switch regime in that GSP Group and divide by 1000.
- b) Allocate the kWh of each load description and switch/dimming regime combination to the SSC of the switch regime and sum by SSC to arrive at the EAC per MSID.
- c) The MSID EAC will be split between the appropriate TPRs utilising the appropriate AFYC to obtain the EAC per Settlement Register.
- d) UMSO shall pass this data directly to the appointed Supplier and the appropriate NHHDC.
- e) The split EAC should be recalculated each time the UMSO is notified of a material revision to the inventory, when that revision has been agreed with the Customer.

NB. Charging Hours - 8766 hours per annum to account for Leap Years.

#### 4.5.2.1 Functions of a Passive Meter.

- a) The Meter Administrator shall be able to add, delete and modify all information required to define each MSID and to relate it to the Customer, LDSO, Supplier and Data Collector.
- b) The Meter Administrator shall be able to add, delete and modify summary inventory data for each MSID both manually and electronically. Summarised inventory data shall comprise:

MSID;  
Effective From Date;  
Inventory title and/or reference;  
Charging Code;  
Time Switch Regime;  
Total number of units of each charging code/TSR combination.

- c) The Meter Administrator shall be able to add, delete and modify approved and interim charging codes and their associated circuit watts and circuit vars for both nominal load and dimmed load ratings as appropriate.
- d) The Meter Administrator shall be able to add, delete and modify approved and interim TSRs and their associated operating times.
- e) The system shall use the weighted average latitude and longitude information of the Apparatus in the inventory and a sunrise/sunset algorithm to calculate the time of sunrise and sunset for each day within two minutes of the sunrise and sunset times as derived from the Astronomical Almanac.
- f) The system shall calculate, by an approved method, the import kWh and import kvarh\* in each half hour period in UTC for each MSID.
- g) The system shall provide secure access for HHDCs, Suppliers and Customers to only that data which is relevant to them.

h) The system shall provide an output file in the format shown in the clause below for collection by the appointed HHDC.

i) The system shall provide an audit trail of changes to data held.

\* except for the currently approved version of FLARE, which does not have this facility.

#### 4.5.2.3 Functions of a Dynamic Meter using CMS Data

A dynamic meter may use the detailed switching and load information recorded and reported by a Central Management System to allocate Half Hourly consumption data. In this case the CMS itself may be operated by the MA or the Customer, however the MA system (the system that is used to calculate the consumption), must be operated by a Meter Administrator Qualified in accordance with BSCP537, who retains the overall Settlement responsibility for the quality of the data submitted by the Customer via the CMS.

In addition to the functions of a passive meter listed above, the following requirements apply. Each requirement may relate to the CMS, the MA system or both. Where the two systems are combined into a single application, all requirements shall apply unless otherwise stated.

a) The MA system shall allow the Meter Administrator to add, delete and modify control information for each MSID both manually and electronically. This control file shall be provided to the Meter Administrator by the UMSO in the following format:

Filename: controlmmmmmmmyyyymmdd.log

where:

mmmmmmm = Sub-Meter ID (alphanumeric)

yyymmdd = date of inventory

log = file extension

with all characters in lower case

File header: HMMMMMMYYYYMMDDVVV

where:

H = header identifier, H

MMMMMMM = Sub-Meter ID (alphanumeric)

YYYYMMDD = effective from date

VVV = version number

File body:

UUUUUUUUUUUNNNNNRRRCCCCCCCCCC

where:

(alphanumeric) UUUUUUUUUUU = CMS Unit Reference

NNNNN = Number of items

RRR = Switch Regime (999 or 998)

CCCCCCCCCCCCC = Charge Code

File trailer: TNNNNN

where:

T = trailer identifier, T

NNNNN = total number of lines including header and trailer

The CMS Unit Reference shall be a 12-digit alphanumeric field that acts as a unique identifier of the unit under CMS control and to which the Charge Code and Switch Regime pertains. The structure of the CMS Unit Reference is to be agreed between the Customer and the UMSO, and may make use of existing information provided in the Detailed Inventory (e.g. National Street Gazetteer road codes) in combination with other data in order to ensure its uniqueness.

The Number of Items is the same as that contained in the Detailed Inventory and shall identify the number of items (e.g. lamps) associated with each CMS Unit Reference.

The Charge Code maintained by the Meter Administrator shall be the normal code for the lamp running at full load. The Switch Regime shall be set to 999 to denote the use of switched equipment (i.e. dusk to dawn), or 998 to denote continuous burning for that MSID.

The CMS controller devices operating each item of equipment should be summed and provided as a row(s) in the file body. Each different type of CMS controller shall have its own Charge Code and will be assigned a continuous Switch Regime of 998 and a CMS Unit Reference of 'Control'