# UMSUG paper – Festive Lighting

## 1. Purpose

This document is proposing two new Charge Codes to be used for festive lighting equipment. These Charge Codes can be used in a customer's Half Hourly (HH) Inventory or Non Half Hourly (NHH) Inventory.

Festive lighting is used during various religious festivals as well as for lighting promenades during the summer. Having distinct Charge Codes makes the identification of this equipment much easier and avoids the use of LED or Miscellaneous codes.

## 2. Rationale

### 2.1. NHH traded MPANs

Paragraph 4.5.3 of BSCP520 requires the UMSO to calculate an EAC for temporary supplies on the basis that the supply will be taken for a full year and allocate the energy to the continuous profile (Switch Regime = 001). The actual energy consumed is calculated and settled using energisation and de-energisation dates reflecting the period that the supply was in use.

This methodology was agreed because through the vagaries of profiling, allocating the supplies to a dusk to dawn or a part night profile meant that the total energy consumed would not be settled correctly, whereas the continuous profile allocated the total energy reasonably accurately, albeit not to the correct half hour period. It is not proposed that any amendment should be made to that methodology.

### 2.2. HH traded MPANs

There are several customers who are now trading their festive lighting by adding them to their main HH inventory. Currently generic lamp Charge Codes with a "01" code prefix may be used to represent the total electrical load, but this does not easily identify the equipment as festive lighting and may result in it being included in the inventory after the temporary supplies have ceased for the season.

The proposed Marketwide Half Hourly Settlement (MHHS) will require all equipment to settle on a HH basis. Introduction of a commonly used Charge Code will ensure compatibility between inventories submitted by UMSOs.

Trading festive lighting on a HH basis enables energy consumption to be allocated to the correct settlement periods rather than the current NHH practice of smearing it across the 48 daily settlement periods. When festive lighting is settled HH the most appropriate Switch Regime can be used.

## 3. Proposal

It is proposed that a new festive lighting prefix for lamps, "15" (currently unused), is created with a circuit rating of one watt, i.e. 15 0001 0000 100. Although most festive lighting is now LED, it is suggested that the generic LED codes are not used as the lighting will not normally be dimmed (see later comments about valid combinations). It also allows for the festive lighting equipment to be clearly identified within an inventory.

The UMSO will agree with the Customer (as now) the total load of the festive lighting. When UMSOs are agreeing festive lighting connections it is believed that the details are not usually provided in a detailed inventory format, instead a schedule or statement is often provided that is converted into a total load.



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Once the total load has been agreed, for example 1,250 watts, the summary inventory entry will be Charge Code 15 0001 0000 100 with a quantity of 1,250. In the summary inventory this is paired with a suitable switch regime to reflect the operating hours, such as 08:00 to 00:00. It would be useful if UMSOs could provide details of the operating hours currently in use by their customers for NHH trading, with a view to suitable regimes being created for future use, possibly with a specific festive lighting range.

Should a Customer not operate all their festive lighting at the same time or for the same period, the total load could be split accordingly, with separate inventory entries and inventory effective dates. Similarly in the unlikely event that the festive lighting exceeds 999,999 watts i.e 1MW, the load could be split accordingly.

It is further proposed that a second Charge Code 15 0000 0000 100 is also created with a circuit watt rating of zero. It is possible that the customer may have requested an EM sub meter to separately identify the festive lighting consumption, inventory entries will be required to maintain the sub meter throughout the year, with zero consumption being calculated outside the lighting period. This will enable the summary inventory to be amended at the end of the lighting period, removing the energy consumption from the half hourly data calculated by the Equivalent Meter (EM). It also has the added advantage of identifying that the festive lighting consumption calculations have ceased.

The valid combinations table in the OID has been considered and no change is required with this addition to the Charge Code range. In the main festive lighting is lit for part of the night, but it could also be operated continuously through the day, from dusk to dawn or controlled by CMS.

## 4. BSCP520 and OID

BSCP520 does not appear to require any changes to reflect this proposal, but it would be advisable to document the treatment of festive lighting when traded half hourly in the Operational Information Document (OID) as drafted in the appendix to this document. It is recognised that it is too late this year for Christmas, but it is proposed that suitable amendments should be included in the next OID update.

## 5. Recommendation

The UMSUG is invited to:

- Consider the proposal,
- Recommend creation of the two new Charge Codes in a subsequent MDD release, and
- Recommend updates to the OID in a subsequent version

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08 December 2020

## Proposed changes to the OID

2.3.1 Lamps

In table ‘Definition of digits 1 and 2’, add;

| Code | Description | Definition Letters | Comments |
|---|---|---|---|
| 15 | Festive Lighting | | See note below that explains how these codes are to be used. |

At the end of 2.3.1 add the following parapraph;

“**Festive Lighting**

Where the UMSO has agreed the total load of a Festive Lighting installation and the appropriate Switch Regime for the hours of operation, the load shall be entered into the inventory using Charge Code 15 0001 0000100, (which has a circuit watt rating of one watt) with a No. of Items equal to the total load in watts, e.g: if a total load has been agreed as 1,250 watts, the inventory entry is Charge Code 15 0001 0000 100 with a quantity of 1,250 and the relevant Switch Regime.

When the Festive Lighting is no longer in use, i.e, the festival has ceased, it may be represented in the inventory using Charge Code 15 0000 000 100, which has a circuit watt rating of zero.