Draft Change Proposal – BSCP40/01	DCP No: 0046 *Version No: 1.0*

Title:

Unmetered Supplies: Accommodating Multi-Level Static Dimming Devices in Half-Hourly and Non-Half Hourly Settlement

Description of Problem/Issue and Purpose of this DCP:

New products are emerging for dimming/switching of street lamps, including pre-programmed devices. These products can facilitate reductions in energy consumption and carbon savings for Unmetered Supplies (UMS). However, the BSC Settlement arrangements do not currently allow for an approach to calculating the energy where such equipment is fitted.

Following discussions at the UMS Users Group (UMSUG) and Supplier Volume Allocation Group (SVG), an industry expert group (the Multi-Level Static Dimming UMS Group) has discussed this issue and has recommended the solution set out in this Draft Change Proposal (DCP).

We have raised this DCP to seek views from Non-Half Hourly (NHH) and Half-Hourly (HH) Unmetered Supplies Operators (UMSOs) and HH Meter Administrators on the practicalities, impacts, costs and lead times associated with this solution, before drafting the necessary changes to BSC documents and raising a full Change Proposal (CP).

You can find an overview of the proposed solution below, with further detail in Attachment A.

Justification for Change:

The BSC arrangements should not be a barrier to Councils and Lighting Authorities installing products which can achieve reductions in energy consumption and associated environmental benefits.

Proposed Solution:

The solution contains the following 7 steps:

1) A manufacturer submits an application to ELEXON for a Charge Code for its new product. The manufacturer will need to provide standard test data to demonstrate the energy drawn by the dimmer (see Attachment A for further details). ELEXON will calculate a new Charge Code and publish it in our existing list of Charge Codes on our website.

2) A NHH or HH UMS customer submits an application to ELEXON for a Switch Regime, containing the following information:

   a. The switching times for which the application is being made;
   b. The percentage energy and associated LUX[1] levels mapped to the switching times;
   c. A statement of the dimmer type (i.e. the product), its Charge Code, and the range and type of electronic ballasts and lamps that will be used with the Switch Regime;
   d. Evidence that the dimming device will accurately dim the proposed ballast combinations (i.e. that the chosen product will dim the lamp/ballast combination to the levels at which the application has been made). This evidence could be either confirmation or evidence from the ballast manufacturer

[1] LUX is a measure of brightness.

or dimmer manufacturer, evidence of the customer's own testing, or reference to a combination that is an already-published valid combination on our website.[2]

3) ELEXON will allocate the correct Switch Regime. This may be an existing Switch Regime where the burn hours match another regime; otherwise ELEXON will calculate a new Switch Regime and record this in our existing spreadsheet of Switch Regimes on our website. There are 2 possible options to ensure that the number of new Switch Regimes IDs is not restricted by the current limit to 3 numeric digits:

   a. Retain numeric regime IDs, but increase the number of digits that can be used; or
   b. Introduce alpha-numeric regime IDs.

4) ELEXON will record all valid product/Charge Code/ballast combinations, mapped to Switch Regimes, in a new table on our website.

5) The customer will provide the Charge Codes and Switch Regime information to the UMSO in its detailed inventory. The UMSO will need to validate the NHH or HH UMS customer's inventory against our website table of valid product/Charge Code/ballast/Switch Regime combinations, before making the appropriate Estimated Annual Consumption (EAC) calculation.

6) HH Meter Administrators will accommodate the new Switch Regimes in Equivalent Meter software for HH UMS customers, using our website table of valid product/Charge Code/ballast/regime combinations as a new set of standing data. Providing that the resulting calculations will accurately model the energy consumption and profile of the new Switch Regimes, individual Meter Administrators can decide how best to accommodate the new Switch Regimes in their own software. The UMSO will send the summary inventory to the Meter Administrator as currently.

7) There are 2 possible options for ensuring that a customer's chosen product retains the correct Switch Regime over time:

   a. Require the customer not to reconfigure the product without first reapplying to ELEXON for a new Switch Regime or direction to an existing valid regime; or
   b. Require the customer to ensure that (at the factory) the manufacturer undertakes the initial configuration, labels the product with the configuration (to help UMSOs undertake on-site audits), and removes the ability for the product to be subsequently reconfigured.

You can find further lower-level details of the solution in Attachment A.

There will be impacts on BSCP520 'Unmetered Supplies registered in SMRS' and the UMS Operational Information document (OID) which we publish on our website.

[2] As we build up our list of valid product/Charge Code/ballast/Switch Regime combinations over time, we will not necessarily need this evidence for each application (e.g. where a customer's application is for a product/ballasts for which we have already had this evidence from another customer). This requirement is therefore not intended to be unduly onerous.

Draft Change Proposal – BSCP40/01	DCP No: 0046 *Version No: 1.0*

Specific Impact Assessment Questions for UMSOs and HH Meter Administrators:

In addition to providing the overall impacts, costs and lead times of this DCP to your organisation, there are also 6 specific questions below on which we would especially welcome your views:

1) What would be the impact to UMSOs of using new Switch Regime IDs for NHH and HH UMS which are either:

   a. Numeric (as now), but which have more than the current 3 digits?; or
   b. Alpha-numeric?

2) Do UMSOs believe that it is feasible for NHH and HH UMS customers to provide us with evidence that their chosen product can work with the lamp/ballast combination in which they intend to install it? *(if not, please say why and suggest an alternative method of assurance)*

3) Do UMSOs believe that it is feasible for NHH and HH UMS customers to either:

   a. Not reconfigure the product without first reapplying to ELEXON for a new Switch Regime or direction to an existing valid regime; or
   b. Ensure that (at the factory) the manufacturer undertakes the initial configuration, labels the product with this configuration, and removes the ability for the product to be subsequently reconfigured?

   (if not, please say why and suggest an alternative method of ensuring that the product retains the correct Switch Regime)

4) What would be the impact to UMSOs of validating NHH and HH UMS customers' inventories against our website list of valid product/Charge Code/ballast/Switch Regime combinations?

5) What would be the impact to HH Meter Administrators of accommodating the new Switch Regimes in Equivalent Meter software for HH UMS customers, based on our suggestion of using our website list of valid product/Charge Code/ballast/Switch Regime combinations as a new set of standing data?

6) Our provisional Implementation Date for this DCP is February 2011. However, this is obviously dependent on the required industry lead times. We are therefore considering allowing UMS customers to apply to install the products under existing Switch Regimes in the interim. This would allow customers to obtain the resulting carbon benefits, but would mean that the actual energy used by the products will not be settled or billed accurately until the DCP is implemented. Do you support this approach?

Where possible, please provide details of associated costs and lead times for questions (1), (4) and (5).

Version History:

We raised Version 1.0 of this DCP on 28 May 2010.

Has this DCP been raised for discussion by a Working Group?

No.

Draft Change Proposal – BSCP40/01	DCP No: 0046 *Version No: 1.0*

Originator's Details:

BCA Name: Kathryn Coffin

Organisation: ELEXON

Email Address: kathryn.coffin@elexon.co.uk

Telephone Number: 020 7380 4030

Date: 28 May 2010

Attachments: Yes

Attachment A – Detailed Solution (4 pages)