

CP1389

About this document:

This is an Assessment Consultation document, which provides details of the background, solution, potential impacts and costs associated with CP1389 'Removal of Lux Meter Requirement for PECU Arrays'. This document is for information only, to be used in line with the Consultation Response form, to which this document is attached.

1. Why Change?

Background

An Unmetered Supply (UMS) is any electronic equipment that draws a current and is connected to the Distribution Network without a meter recording its energy consumption. The UMS process is governed by BSCP520 'Unmetered Supplies Registered in SMRS'.

BSCP520 defines the required minimum specifications for a Photo Electric Control Unit (PECU) Array. A PECU Array contains a representative sample of photocells, used in the recording of PECU data.

The Meter Administrator (MA) is a qualified agent who provides Half-Hourly consumption data for settlement purposes and also manages PECU Arrays and processes Central Management System (CMS) data. Suppliers use this consumption information when calculating customers' energy bills.

BSCP520 requires a Lux Meter (otherwise known as a Light Meter) to be included in a PECU Array. Although a Lux Meter is included in the minimum specification, the data derived from it is not used in any settlement calculations. The settlement calculations currently use the recorded switch on and switch off times for each PECU as well as any alarm indicators. The light level readings derived from the Lux Meter are only used during the investigation of inconsistent switching of the PECUs within an Array, though the MA does have other reporting tools to assist in the identification of a PECU fault. BSCP520 Section 4.5.2 'PECU Array Maintenance and Upkeep' details how the MA shall monitor the performance of PECU Arrays which enables the MA to identify a PECU Fault without requiring the light level readings derived from the Lux Meter.

What is the issue?

CP1389 contends that it is difficult to justify the cost and additional burden of requiring a Lux Meter if the light level readings derived from it are not required for settlement purposes. CP1361 proposes to remove the Lux Meter specification, allowing it to be an optional item during procurement and during the working life of a PECU Array.



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The Unmetered Supplies User Group (UMSUG) met on 16 January 2013¹ where they discussed this issue and recommended that ELEXON raise a CP. The Supplier Volume Allocation Group (SVG) met on the 5 February 2013² and discussed the UMSUGs recommendation and also agreed that ELEXON should raise a CP to remove this obligation.

2. Solution

CP1389 'Removal of Lux Meter Requirement for PECU Arrays' proposes amendments to BSCP520 Section 4.5.2.1, removing the requirement for a Lux Meter to be included in a PECU Array, as shows below:

Minimum Specification for PECU Arrays

Number of Photocells per 30
PECU array

Arrangement of Cells	Any arrangement which ensures no over shadow of one cell on another.
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Mounting Platform	Flat platform which can be fitted on a flat roof or supported on a single upright for wall mounting. All the construction must be coated with a weather coated finish.
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Mounting for Photocells	NEMA photocell sockets and 6 blanking plates to cater for miniature cells where required, in a waterproof housing.
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Waterproof Housing	All equipment externally located must be protected by a weatherproof enclosure.
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Data Collection	To capture the switching on and off times of each cell together with the Lux level at time of operation for a minimum of 7 days and 28 events per cell. Rolling Barrel (data overwrites once the logger is full).
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¹ Further information on this meeting can be found on the UMSUG 108 page of the BSC website [here](#).

² Further information on this meeting can be found on the SVG 144 page of the BSC website [here](#).



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Clock or time counter	The data collector must be accurate to +/- 20 seconds / month, which is checked by the EM at the time of contact.
Operating Temperature	-20 to +50 degree Celsius.
Lux Meter	Recording the illumination level at time of switching.
Communication Protocol	Determined by the EM to permit interrogation for remote data collection.

The removal of this requirement will not prevent the instillation of Lux Meters in a new PECU Arrays if required by the MA and would not require a change to existing PECU Arrays.

The proposed changes can also be viewed in the BSCP520 draft redlining in Attachment A.

Question 1

Do you agree with the proposed change?

Please provide your response and rationale in the response form provided.

3. Impacts and Costs

Potential Central Impacts and Costs

CP1389 will require updates to BSCP520. The estimated ELEXON effort to implement the change is detailed in the table below:

ELEXON Costs		
Document Changes	System Changes	Total
BSCP520	None required	£240 (one manday)



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Potential Party Impacts and Costs

There have been no Party impacts and costs identified in relation to the implementation of CP1389.

Question 2

Is your organisation impacted? If yes, please answer the following:

Please provide your response and rationale in the response form provided.

Question 3

How is your organisation impacted?

Please provide your response and rationale in the response form provided.

Question 4

What are the associated costs on your organisation to implement this change?

Please provide your response and rationale in the response form provided.

4. Implementation Approach

CP1389 is targeted for implementation on 07 November 2013 as part of the November 2013 BSC Release.

Question 5

Do you agree with the implementation approach? If not, why?

Please provide your response and rationale in the response form provided.

Question 6

Do you have any other comments?

Please provide your response and rationale in the response form provided.



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Attachments:

Attachment A - BSCP520 Redlining v0.2

Attachment B - CP1361 Form

For more information, please**contact:**

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