



Final CP Report – CP1389

Date	08 May 2013
Purpose of paper	For Information
Summary	This report provides details of the background, solution, impacts, industry views and the SVG's final views on its decision to Approve CP1389 'Removal of Lux Meter Requirement for PECU Arrays'.

1. Why Change

Background

An Unmetered Supply (UMS) is any electronic equipment that draws a current and is connected to the Distribution System without a Meter recording its energy consumption. The UMS process is governed by Balancing and Settlement Code Procedure (BSCP) [520](#) '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 Supplier Agent who provides Half-Hourly (HH) consumption data for Settlement purposes. The MA also manages PECU arrays and processes Central Management System (CMS) data. Suppliers use this consumption information when calculating consumers' 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 that are derived from the Lux Meter.

What is the issue?

[Change Proposal \(CP\) 1389](#) 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. This CP 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 2013 where it discussed this issue and recommended that ELEXON should raise a CP ([UMSUG108/08](#)). At its meeting on 5 February 2013, the SVG discussed the UMSUG's recommendation and also agreed that ELEXON should raise a CP to remove this obligation ([SVG144/04](#)).

2. Solution

CP1389 'Removal of Lux Meter Requirement for PECU Arrays' proposes amendments to BSCP520 Section 4.5.2.1. The CP removes the requirement for a Lux Meter to be included in a PECU Array, as shown below:

Minimum Specification for PECU Arrays

Number of Photocells per PECU array	30
Arrangement of Cells	Any arrangement which ensures no over shadow of one cell on another.
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.
Mounting for Photocells	NEMA photocell sockets and 6 blanking plates to cater for miniature cells where required, in a waterproof housing.
Waterproof Housing	All equipment externally located must be protected by a weatherproof enclosure.
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).
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.



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~~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 installation of Lux Meters in a new PECU array if required by the MA and will not require a change to existing PECU arrays.

You can also view the proposed changes in the BSCP520 draft redlining in Attachment A.

3. Impacts and Costs

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 man day's effort)

Party Impacts and Costs

One respondent to the Participant Impact Assessment (IA) indicated that there would be an impact on their organisation, stating that when operating as an MA they need to ensure that PECU arrays are compliant with the BSC requirements.

No other participants indicated any impacts and costs associated with the implementation of CP1389.

4. Implementation Approach

We recommend an Implementation Date for CP1389 of 7 November 2013, as part of the November 2013 BSC Release. This is the next available BSC Release; all of the respondents to the IA agree with the proposed Implementation Date.



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6. Industry Views

ELEXON issued CP1389 for IA via CPC00725 on 22 February 2013. We received eight responses, of which all agreed with the proposed changes.

Respondents indicated that they agreed with CP1389 as the Lux Meter is not required for Settlement purposes. Therefore there is no need to have the requirement mandated under the BSC when it could cause unnecessary costs to participants. Additionally, some respondents agreed that the Lux Meter should remain an optional requirement, allowing it to be included in a PECU array if required by the MA.

One respondent noted that they agreed with the proposed solution as it complies with government and Ofgem principles of 'better regulation' by only seeking to regulate essential items.

The following table shows the breakdown of responses. You can also find the full collated participant responses to CP1389 on the BSC Website [here](#) and in Attachment B.

Summary of Responses for CP1389			
Organisation	Capacity in which Organisation operates (Supplier, LDSO, MOA etc.)	Agree?	Impacted?
Western Power Distribution	Licensed Distribution System Operator (LDSO)	Yes	No
ScottishPower	LDSO, Unmetered Supplies Operator (UMSO)	Yes	No
TMA Data Management Ltd	Non-Half Hourly (NHH) Data Collector (DC), NHH Data Aggregator (DA), HHDC and HHDA	Yes	No
British Gas	Supplier, Meter Operator Agent (MOA)	Yes	No
Power Data Associates Ltd	MA	Yes	Yes
Southern Electric Power Distribution & Scottish Hydro Power Distribution	LDSO, UMSO	Yes	No
Electricity North West Limited	LDSO, UMSO	Yes	No
Npower	Supplier	Yes	No

Comments on the Proposed Redlining

There were no comments from respondents on the proposed BSCP520 redlining.



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8. Final Decision

ELEXON presented CP1389 to the SVG at its meeting on 30 April 2013 ([SVG147/02](#)). We invited the SVG to approve the CP for implementation.

The SVG agreed with the proposed changes to BSCP520 and approved CP1389 for implementation on 07 November 2013, as part of the November 2013 BSC Release.

Attachments:

Attachment A – BSCP520 Redlining

Attachment B – CP1389 Consultation Responses

For more information, please

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