



# **London Cycle Hire Scheme**

## **Schedule 2**

### **On-Street Infrastructure Statement of Requirements**

#### **Appendix 11 – UMS Testing Procedure**

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## **UNMETERED SUPPLIES USER GROUP**

### **Testing Procedure for the Issue of a Charge Code for New Equipment**

The object of this testing procedure is to provide an accurate indication of the load at the Distribution Network terminals of the particular equipment under normal service conditions; i.e. to establish what consumption would be recorded by a standard meter fitted at the supply terminals. The load tests for equipment designed for operation at other voltages MUST include an appropriate transformer.

Brief details of the equipment, including the Product Name and Product Code used by the manufacturer, must be supplied with the test data to enable the list of agreed ratings to be maintained.

#### **Equipment Tests**

1. Testing shall be carried out by an ISO 9001 accredited test house or other test house agreed by ELEXON.
2. ELEXON reserves the right to witness the tests if so required.
3. Both power/voltage and volt-ampere/voltage curves will be required with measurements taken at 210, 220, 230 240 and 250 volts, 50 hertz. .
4. The accuracy of the measurements shall be stated and the minimum accuracy shall be  $\pm 2\%$  of the recorded value.
5. The power measurements must include any voltage transformers necessary to operate the equipment from the mains.
6. The sample size shall be 1% of the expected first year's production subject to a minimum of five and a maximum of fifty.
7. Samples must be tested after operating for sufficient time to reach their steady load state. If it is likely that the load will vary over the life of the equipment then the tests should be carried out after at least one hundred hours of operation.
8. If the equipment contains both lamps and control gear then the control gear shall be divided into at least three batches. Each batch is to be tested with lamps supplied by a different major manufacturer.
9. If the equipment includes facilities to dim to a fixed load level, then full load as well as dimmed load data is required.

The User Group will consider the test results in recommending an appropriate Charge Code for inclusion in BSCP520. However the Chairman may, at their discretion, issue a Temporary Code prior to the recommendation by the Group.

#### **Note – Power Factor**

It is a standard requirement of Unmetered Connection Agreements that the power factor of connected equipment should be as near to unity as practicable but in any case at not less than 0.85 lagging or 0.95 leading. If equipment does not meet this standard then Distribution Companies may refuse to connect the equipment.

The issue of a charge code does not mean that the equipment meets the requirements of Distribution Companies for an Unmetered Connection.