

UMSUG119/03 – PROPOSED APPROACH TO TESTING FOR EXTRA LOW VOLTAGE EQUIPMENT

MEETING NAME UMSUG 119

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Purpose of paper Decision

Classification Public

Summary This paper presents updated redlining to the Operational Information Document (OID), covering testing requirements for extra low voltage equipment. We invite the UMSUG to recommend that the Supplier Volume Allocation Group (SVG) approves these changes, to take effect in parallel with Version 252 of Market Domain Data (MDD) on 15 March 2017.

1. Background

- 1.1 At [UMSUG 118](#) in September 2016, we presented draft OID redlining setting out our proposed approach to testing for extra low voltage equipment (equipment that operates on voltage levels below 210 volts). A summary of the proposed approach can be found in UMSUG paper [118/05](#).
- 1.2 The UMSUG recommended that we review the proposed approach further with the Association for Road Traffic Safety and Management (ARTSM) (Action 118/07).

2. Proposed approach to testing

- 2.1 Following the UMSUG 118 meeting, we discussed the proposed approach with various representatives from the ARTSM, Power Data Associates (PDA), Crange EMC Testing, and LIA Laboratories. This discussion group recommended two further refinements to the proposed approach, which include:
 - Specifying that equipment that is dimmed by lowering the voltage supply shall have its power measurements taken at the nominal full voltage and the nominal dimmed voltage(s).
 - Reducing the number of test samples for equipment with nominal watts of less than 10W (see 3.1 for additional information) and nominal voltage of less than 210 volts. The power measurements for such equipment would be taken at its nominal voltage only, instead of at five different voltage levels as currently required.
- 2.2 We have included these suggestions in the updated OID redlining, which can be found in Attachment A.

3. Other considerations

- 3.1 The discussion group initially considered reducing the number of test samples for equipment with nominal watts of less than 20W, but eventually decided on a more conservative threshold of 10W. One of the participants in the discussion noted that a higher threshold of 20W has the benefit of reducing the cost and difficulty of testing for more equipment. They advised that it is for the UMSUG to determine the appropriate level of cost to applicants relative to the risk to customers associated with a given threshold.
- 3.2 The OID specifies that, if there are multiple pieces of equipment being supplied by one transformer, an uplift of 10% shall be added to the power measurements of each piece of equipment. The discussion group considered revising the level of uplift but noted that there is currently insufficient information to support this.

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4. Recommendations

4.1 We invite you to:

- a) **REVIEW** the updated OID redlining;
- b) **AGREE** a finalised version of the redlining to be implemented as version 17.0 of the OID; and
- c) **RECOMMEND** to the SVG that it approves the updated OID to be effective from 15 March 2017, which is the next MDD version go-live date to follow the 28 February 2017 SVG meeting.

Attachments

Attachment A – Redlined OID

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