

**ECOU Addendum to the requirements for Distribution Class Surge Arrestors**

This Addendum is in reference to the following documents. These documents must be read in conjunction with this addendum:

- 240-171000462 Technical Evaluation Criteria for Distribution Class Surge Arresters
- 240-56062768 Rev 3 Distribution Class Metal Oxide Surge Arresters Without Spark Gaps Specification

The Eskom standards still reference clauses as per IEC60099-4 (2009 edition).

The IEC60099-4 standard was updated to a new edition in 2014. The updated reference clauses as per IEC60099-4 (2014 edition) are listed in the table.

<b>Activity</b>	<b>Eskom spec reference to IEC</b>	<b>IEC (2014) new reference</b>
Clause 4.2.1: Insulation withstand testing	10.8.2	10.8.2
Clause 4.2.2: Insulation withstand test on insulated mounting bracket	IEC60060-1	10.8.2
Clause 4.2.3: Residual voltage test	10.8.3	10.8.3
Clause 4.2.4: Long duration current impulse withstand test => replace with IEC: <i>Test to verify long term stability under continuous operating voltage</i>	10.8.4	10.8.4
Clause 4.2.5: Operating duty test	10.8.5	10.8.7
Clause 4.2.6: Power frequency voltage versus time characteristic	No ref listed	10.8.8
Clause 4.2.7: Short-circuit tests	10.8.7	10.8.10
Clause 4.2.8: Internal partial discharge test	10.8.8	12.8.17
Clause 4.2.9: Water immersion test	10.8.9.3.2	10.8.11.3.2
Clause 4.2.10: Weather ageing and pollution performance test	KIPTS or 10.8.14	10.8.14
Clause 4.2.11.1: GLD long duration current impulse withstand test	8.6.2.1	10.8.4
Clause 4.2.11.2: GLD time versus current curve test	8.6.3.1	8.9.3.1
Clause 4.2.11.3: GLD operating duty test	8.6.2.2	8.9.2.3
Clause 4.2.11.4: GLD high lightning duty current impulse withstand test	8.5.4	Equivalent test
Clause 4.2.11.5: GLD repetitive surge withstand ability test	No ref listed	8.9.2.2
Clause 4.2.11.6 GLD Thermal preconditioning & water immersion test	10.8.9.3.1.3 10.8.9.3.1.2	10.8.11.3.1.3 10.8.11.3.2
Clause 4.2.11.7: GLD mechanical test	No ref listed	8.9.4

These must be applied when referenced in both the Eskom standards when compiling a tender submission. Certain test criteria are detailed explicitly in the Eskom standard and these needs to be complied with. Any alternative/equivalent tests submitted shall be accompanied by a detailed motivation listed in the relevant deviation schedule and these will be subject to approval by the technical evaluation team.

The evaluation criterion is attached hereto. It must be noted that:

**“Eskom reserves the right to place the technically compliant products on the TEAP product database upon it meeting the threshold set for technical/functional evaluation”.**

**“Eskom reserves the right not to perform a technical/functional evaluation on a product that has been added to the TEAP product database as this product has previously been found to be technically compliant.”**

Compiled by:

Functional responsibility:



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**Date:** 02/03/2026



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**Date:** 02/03/2026