

Intertek C&E Management System		Page 1 of 4
Work Instruction (Inspection)		Document No.: WI-R-EMEA-CERT-INSP-PCS031
EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS		
Issue Date:	Revision Date: 11 th Feb 2015	Approved by: Anders Delsborn
	Effective Date: 19 th Feb 2015	

1.0 Purpose

Product Control Specifications (PCS) specify the requirements for routine inspections, tests, Product Verification Tests and sample selection for products certified under an Intertek EU Type 5 certification scheme (including GS, S, BEAB, ASTA, ENEC, BAUART and TICK MARK). They are for use by manufacturers and by factory inspectors.

2.0 Scope

Products: Transformers for tubular discharge lamps having a no-load output voltage exceeding 1000V (neon-transformers)

Standards: EN 61050

Marks: S, BG, ENEC and TICK-mark

3.0 Routine inspections and tests

3.1 General

The following requirements apply to most products.

Variations may be permitted by prior, written agreement from the certification body.

The factory should have a quality plan defining all inspections and tests on materials, components and completed products as appropriate.

Completed products shall be marked to confirm satisfactory completion of all required testing.

Any products which fail inspection or testing shall be segregated and not allowed to continue through the process until rectified and re-inspected or retested.

Products shall not be released until the testing equipment has been checked again following a production batch.

Records of inspections and test should be maintained and held for at least two years.

Records shall include:

- Type of product
- Date of test
- Place of manufacture
- Quantity tested
- Number of failures and actions taken

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3.2 Required inspections and tests (for Intertek Certification Marks)

Inspection/test	Test parameters	Sampling plan
Satisfactory appearance, correct and clear markings and any instructions	Visual inspection	100%
Function test for check of correct operation	Generally with proper lamps at normal operating voltage	100%
Checking of no-load output voltage	Max 110% of rated value	100%
Checking of short-circuit current of the output live parts when the input live parts are connected to the rated supply voltage	Rated current +5% or +2mA	100%
Dielectric strength test between input live parts and the body, with the output live parts connected to the external metal parts - min. 1s	2U + 1000	100%
Dielectric strength test between output live parts and the body, with the input live parts connected to the external metal parts – min. 1s	2 x no-load output voltage	100%
Dielectric strength test through induced voltage. The transformer, with no-load, connected for 1 min. to an a.c. voltage, as far as possible of sine-wave form. The primary voltage to be 150% of the rated supply voltage and the frequency shall be approximately twice the rated frequency.	No flashover or breakdown shall occur during the test	100%
Protective earth continuity test 6-12V a.c.	Not less than 10A between earthing terminal/contact and accessible metal parts that may become live in case of insulation defect. Max. contact resistance 0,5Ω.	100%

3.3 Required inspections and tests (for ENEC Marked products)

In addition to the inspections and tests detailed in section 3.2, the requirements of document ENEC 303 Annex Q shall be fulfilled.

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4.0 Product Verification Tests/Periodic testing (refer to CIG 021 clause 4.8)

Product verification tests are in addition to the production line inspection and routine tests and are performed on samples taken randomly from the production line.

The manufacturer is responsible for conducting or arranging for the following periodic testing to be completed. Records shall be available for review during factory inspection visits.

Certification Mark	Frequency	PVT/periodic testing required
ENEC, SEMKO, BG and TICK-mark	Recommended	<p>PVT is not mandatory but it is recommended to demonstrate ongoing compliance with EU Directives. For each basic type certified, the following tests according to the product standard is recommended:</p> <ul style="list-style-type: none"> • Marking • Protection against accidental contact with live parts • Terminals • Creepage distances and clearances • Screws, current-carrying parts and connections • Functional test of safety switches, if applicable

Intertek certification offices can advise on any aspect of PVT and can provide the testing service if required.

5.0 Surveillance testing by the Certification Body

If required, samples are selected during the factory inspection and the manufacturer should send these to the address provided. If samples are required but not available at the time of the inspection, the manufacturer should send these as soon as they become available. If there is no stock or production, the manufacturer should advise the certification body that samples will not be provided due to no production.

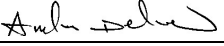
The certification body will arrange for the required testing to be completed. This will be charged to the manufacturer or Licence holder. A report of the testing will be provided.

Certification Mark	Surveillance testing requirements
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SEMKO, BG and TICK-mark	Regular selection of samples is not required. Samples may be required if any deviations to the type tested or non-compliance with the product standard are suspected
ENEC	Samples for product surveillance are selected by the inspector at the time of factory inspection, to be sent to Intertek.

Document History				
Revision No.	Date	Changes	Name & Title	
			Author	Approving Official
1	11/02/2015	Original issue	Torbjörn Andersson / R W Hayward	

End of Document

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