

Intertek C&E Management System		Page 1 of 4
Work Instruction (Inspection)		Document No.: WI-R-EMEA-CERT-INSP-PCS037
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: Low-voltage switchgear and controlgear, including:

- Power switchgear and controlgear assemblies
- Distribution boards
- Busbar trunking systems

Standards: IEC / EN 61439-1, IEC/EN 61439-2, IEC/EN 61439-3, IEC / EN 61439-4, IEC / EN 61439-5 IEC/EN 61439-6

Marks: S, ASTA, BAUART, TICK

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

Inspection/test	Test parameters	Sampling plan
Design based on type tested/verified reference designs	Technical construction file should be available with traceability to verification of reference designs and justification for any different features and/or incorporated components. Bill of materials and detailed construction drawings should be included.	100%
Routine verification testing as described in clause 11 of the standard, including: Construction <ol style="list-style-type: none"> 1) degree of protection 2) clearances and creepage 3) protection against shock 4) incorporation of components 5) internal circuits and connections 6) terminals for external 7) mechanical operation Performance <ol style="list-style-type: none"> 1) dielectric properties 2) wiring, operational performance and function 	Refer to IEC/EN 61439-1 + relevant part of 61439 series for product. The manufacturer is expected to have access to the standard.	100%
Marking, including: <ol style="list-style-type: none"> 1) Manufacturer's name or trade mark 2) Designation (or other means of identification) 3) Means to identify date of manufacture 4) Number of the standard 	Visual inspection	100%
Instructions for handling, installation, operation and maintenance	Visual inspection/confirm availability (note: for some items this may be provided in catalogues)	100%

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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
SEMKO, ASTA, BAUART, TICK		Manufacturer should consider a programme of PVT for assemblies as appropriate to confirm ongoing compliance. This is particularly relevant to high volume production of similar assemblies. Intertek will review this and may require additional PVT, depending on the nature of the products.

Note: If the manufacturer does not have access to a suitable laboratory then the above testing must be conducted by Intertek or a laboratory accepted in advance by Intertek.

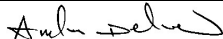
5.0 Surveillance testing by the Certification Body

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
SEMKO, ASTA, BAUART, TICK	Regular selection and testing of surveillance samples is not required provided that records of the above PVT are submitted to the certification body for review each year. Samples may be required if any deviations to the type tested or non-compliance with the product standard are suspected

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

End of Document

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