

Section 6

SAMPLING AND STATISTICAL TESTS

Where a Test Specification requires that inspection and acceptance for any test or group of tests shall be on a statistical basis the sampling procedure shall be in accordance with Appendix XI. Sampling Inspection will be indicated by the inclusion of an Inspection Level and an Acceptable Quality Level (AQL) in the Test Specification.

6.1 Test Specifications issued prior to Issue 5 of this specification or subsequently re-issued. In some Test Specifications issued before the publication of Issue 5 of K.1001 it was shewn that 100% inspection was not essential for certain tests. This was indicated by one of the following methods:-

- (a) A percentage of each quantity of valves to be submitted to the Inspecting Officer, with an overriding minimum; e.g. 1% (20).

This shall now be interpreted as Inspection Level IB and AQL 6.5%. (See Appendix XI).

- (b) A fixed quantity to be tested per week or month; e.g. 6 per week.

This shall now be interpreted as Inspection Level IC and AQL 6.5%. (See Appendix XI).

- (c) 100% or S.

This shall now be interpreted as giving the manufacturer permission to use a Sampling Inspection plan instead of 100%. The following procedure shall apply:-

- (i) Characteristic tests for Ih, Ih-k, Ia and gm

Inspection Level = II. AQL = 1.5%. (See Appendix XI)

- (ii) Other characteristics

Inspection Level = I. AQL = 4.0%. (See Appendix XI)

6.2 Test Specifications for Normal Quality General Purpose Receiving Valves

6.2.1. Test specifications for normal quality general purpose receiving valves often specify tests to be performed at an Inspection Level of 100%. In these cases the manufacturer may with the agreement of the Inspecting and Approving Authority, apply Sampling and Statistical Testing in accordance with Appendix XI.

The tests shall be grouped (see also Appendix IX clause 2.4.1.1.) as follows:-

- (a) Group A.

Reverse Grid Current and Electrode Insulation Tests.
Inspection Level = 100% (alternatively these may be submitted to Group B testing).

- (b) Group B.

Major Electrical Parameters. (These will be those tests not already covered in either clauses 6.1. or 6.2.(a) above. Inspection Level = II. A.Q.L. = 0.65%. A combined A.Q.L. of 1% shall also be applied to each set of four test parameters, (or less as necessary), taken in the sequence in which they are specified.

- (c) Group C.

Secondary Electrical Parameters. The Sampling specified in clause 6.1. above, applies as appropriate.