

## Section 16

### HOLDING PERIOD

16.1. All valves intended for delivery on contract shall, after completion of manufacture, be held in store for a specified holding period and shall then be tested or retested prior to despatch. Valves shall not be operated during the holding period.

16.2. The Test Specification will normally specify the minimum duration of the holding period together with the tests which are to be performed after completion of the holding period. Any valve failing to pass the specified tests shall be deemed a failure and removed from the lot.

16.3. Where in Test Specifications no mention of holding period is made the following Clauses appropriate to the class of valve shall apply.

16.3.1. The manufacturer may at his discretion perform any of the other tests specified in the test specification either prior to or after, completion of the holding period.

16.3.1. Air, Water and Radiation Cooled Valves excluding General Purpose Receiving Valves.

16.3.1.1. Duration of the Holding Period

The minimum duration of the holding period shall be fourteen days.

16.3.1.2. Post Holding Period Tests

Inspection for inoperatives together with a measurement of reverse grid current shall be performed. The maximum limit of  $-I_{gl}$  shall not be more than 10% above the limit specified for this test in the test Specification.

16.3.2. Cathode Ray Tubes

16.3.2.1. Duration of the Holding Period

Minimum duration of the holding period shall be seven days.

16.3.2.2. Post Holding Period Tests

The tests to be performed after the holding period shall be agreed with the Specification Authority.

16.3.3. Gas or Vapour Filled Valves (Cold Cathode)

16.3.3.1. Sealing Tubes (including Vacuum Counter Tubes)  
(G.M. tubes etc.)

16.3.3.1.1. Duration of the Holding Period and Post Holding Period Tests

The minimum duration of the holding period and the tests to be performed after the holding period shall be agreed with the Specification Authority.

16.3.3.2. Spark Gaps, Arc Discharge, Trigger and Display Tubes

16.3.3.2.1. Duration of the Holding Period

Minimum duration of the holding period shall be fourteen days.

16.3.3.2.2. Post Holding Period Tests

Inspection for inoperatives together with specified measurement of either ignition or trigger voltage, as appropriate. The limits in the Test Specification shall apply.

16.3.3.3. Stabilisers (Glow Discharge and Reference Tubes)

16.3.3.3.1. Duration of the Holding Period

Minimum duration of the holding period shall be fourteen days.

16.3.3.3.2. Post Holding Period Tests

Inspection for inoperatives together with specified measurement of maintaining voltage. The limits in the Test Specification shall apply.

16.3.4. Gas or Vapour Filled Valves (Hot Cathode)

16.3.4.1. Ignitrons, Excitrons Rectifiers and Hydrogen Thyratrons

16.3.4.1.1. Duration of the Holding Period

Minimum duration of the holding period shall be fourteen days.

16.3.4.1.2. Post Holding Period Tests

Inspection for inoperatives together with a high voltage test. The limits in the Test Specification shall apply.

16.3.4.2. Thyratrons (other than Hydrogen)

16.3.4.2.1. Duration of the Holding Period

Minimum duration of holding period shall be fourteen days.

16.3.4.2.2. Post Holding Period Tests

Inspection for inoperatives together with ignition and high voltage tests. The limits in the Test Specification shall apply.

16.3.5. Klystrons (High Power)

16.3.5.1. Duration of the Holding Period

Minimum duration of holding period shall be twenty-eight days.

16.3.5.2. Post Holding Period Tests

The tests to be performed after the holding period shall be agreed with the Specification Authority.

16.3.6. Klystrons (Low Power)

16.3.6.1. Duration of the Holding Period

Minimum duration of the holding period shall be fourteen days.

16.3.6.2. Post Holding Period Tests

The tests to be performed after the holding period shall be agreed with the Specification Authority.

16.3.7. Magnetrons

16.3.7.1. Duration of the Holding Period

Minimum duration of the holding period shall be fourteen days.

16.3.7.2. Post Holding Period Tests

Where a test for stability is included in the test specification it shall be repeated, otherwise, the tests to be performed shall be agreed with the Specification Authority.

16.4. Repeat Tests

The manufacturer may, in addition to the relevant tests specified in Clause 16.3 elect to repeat certain of the remaining tests detailed in the Test Specification.

16.5. Double Holding Period

Where a Double Holding Period is required, the Test Specification will state the details of the tests which are to be recorded.

16.6. Changes in Characteristics

In certain cases it may be necessary to specify in test specifications, allowed changes in characteristics for individual valves during the Holding Period.