

SUBJECT HEATER-CATHODE SURGE TEST

SUPERSEDED DATE

Approval tests for changes in construction and materials of coated heater and cathode assemblies shall be conducted as follows when specified on special instruction (page 1a, etc.) pages of construction data.

## SPECIMAN

- A. Tests are to be made on completed tubes or on mounts sealed into small bulbs (not over 2" O.D. in order to fit available equipment).

TEST (a minimum of 5 assemblies to be tested without failure as follows:)

- A. Apply across heater-cathode a negative potential of -500 volts for an intermittent test with heater on 17 seconds and off 37 seconds for 2000 cycles.
- B. No short must develop during intermittent operation and tubes must pass satisfactorily standard H-K leakage tests after intermittent operation.
- C. H-K leakage is to be checked both before and after 2000 cycle operation.