



EXPOSING SLURRY COATING
SUBJECT: Process Specification

This specification applies to the process of exposing the phosphor slurry coating on the face plate of the color kinescope screen after each phosphor slurry coating has been applied.

SCHEDULE NO. 1
(Initially for C73685 series).

MAY 1955

1. EQUIPMENT

- a. Mask insertion table.
- b. Mask and face plate storage cabinet.
- * c. Mask insertion keys.
- d. Light house (mercury arc).
- e. Ten power hand lens.
- f. Light box.
- g. Pivot drill (0.009" dia.).
- h. * * *
- i. Timers.
- j. Safety glasses (for UV light).
- k. * * *
- l. * * *
- m. * * *
- n. Orange filter (Corning glass No. 3480).
- o. * * *
- p. Flash light.
- q.**Weston D.C. microammeter, Model 622.
- r.**Western Electric "Photronic" photocell Model 856.
- s.**Glass panel - GMP170 Dev. 604 (3720-77 glass).

2. MATERIALS

High pressure filter air.

3. PROCEDURE

- a. Clean with high pressure air.
- b. Remove particles with pivot drill. Visually check masks for dents.
- c. Align the top of the aperture mask with the top of the face plate, insert the mask so the top spring hole engages the top stud, and rest the bottom of the other springs on top of their respective studs.
- d. Open springs by insertion keys and rotating 1/4 turn. Secure mask by releasing springs in order that the spring holes engage the cap studs.
- e. Check visually to make sure the support springs are seated properly.
- f. Expose the slurry using the time designated on the lighthouse chart.
- g. To check mask replacement for second and third exposure place orange filter (Corning 3480) of 1.5 mm thickness over light source. Place face plate assembly on light house. Return light to first exposure position and observe landing of light spot. Remove and reseal mask if required. Reject face plate if misregister cannot be reduced to 2 mils or less. If register is satisfactory remove orange filter and begin exposure.
- h. Read the light intensity in center of check face plate at 2 hour intervals starting at 7:00 A.M. Record the intensity on the light house intensity chart.
- i. Remove from lighthouse after exposure.
- j. Remove mask and deliver face plate to developing.

End of Schedule No. 1

SCALE— * Data Revised
DIMENSIONS IN

UNLESS OTHERWISE SHOWN. DIMENSIONS SHOWN WITHOUT TOLERANCES ARE DESIGN CENTERS

10-554-27-61 PCL27628-126PD

* CHANGE
** ADDITION
*** DELETION
These drawings and specifications are the property of Radio Corp. of America, Tube Division, and shall not be reproduced or copied or used as the basis for the manufacture or sale of apparatus and/or devices without permission. 13D26-R2