



SUBJECT: SETTling P16 FLUORESCENT SCREENS
 Process Specifications

SCHEDULE NO. 1
 (Initially for 5ZP16)

1. EQUIPMENT As specified in 34-17-14.

- 2. MATERIALS * C356A Calcium Magnesium Silicate Phosphor suspension
 P69B 1-N potassium sulfate, purified
 → * P264D Potassium silicate purified.
 H7 Hydrofluoric acid
 B610D Isobutyl Methacrylate lacquer

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3. PROCEDURE

- a. Rinse bulbs with distilled or deionized water and allow to drain.
 b. Paint face plate with B610D lacquer to form a protective layer on the faceplate surface.
 c. Place bulbs on settling table in perpendicular position.
 d. Measure the following materials into a 3-liter Florence flask.
 For 5 bulbs at 2.5 mg/cm² use:

- * 55 cc C356A 30 mg/cc
 → * 68 cc potassium silicate
 390 cc potassium sulfate, 1-N
 → * 1487 cc distilled or demineralized water.
 2000 cc total settling suspension

- e. Shake flasks vigorously and pour 400 cc of the above settling suspension into a graduate.
 f. Add contents of graduate to bulb through an open-end funnel equipped with a 325 mesh, stainless steel strainer insert. Tip of funnel shall extend just below the bulb reference line.
 g. Allow screen to settle at least 3 hours.
 h. Pour off clear solution, pouring time 6-8 minutes.
 i. Air dry screen.
 j. Wash neck with .5 to 1.0% hydrofluoric acid.
 k. Alternate bulb cleaning process. See 34-17-4P.

SCALE—

DIMENSIONS IN

UNLESS OTHERWISE SHOWN.

End of Schedule #1
 DIMENSIONS SHOWN WITHOUT TOLERANCES ARE DESIGN CENTERS

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• CHANGE
 •• ADDITION
 ••• DELETION

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