SCREENING

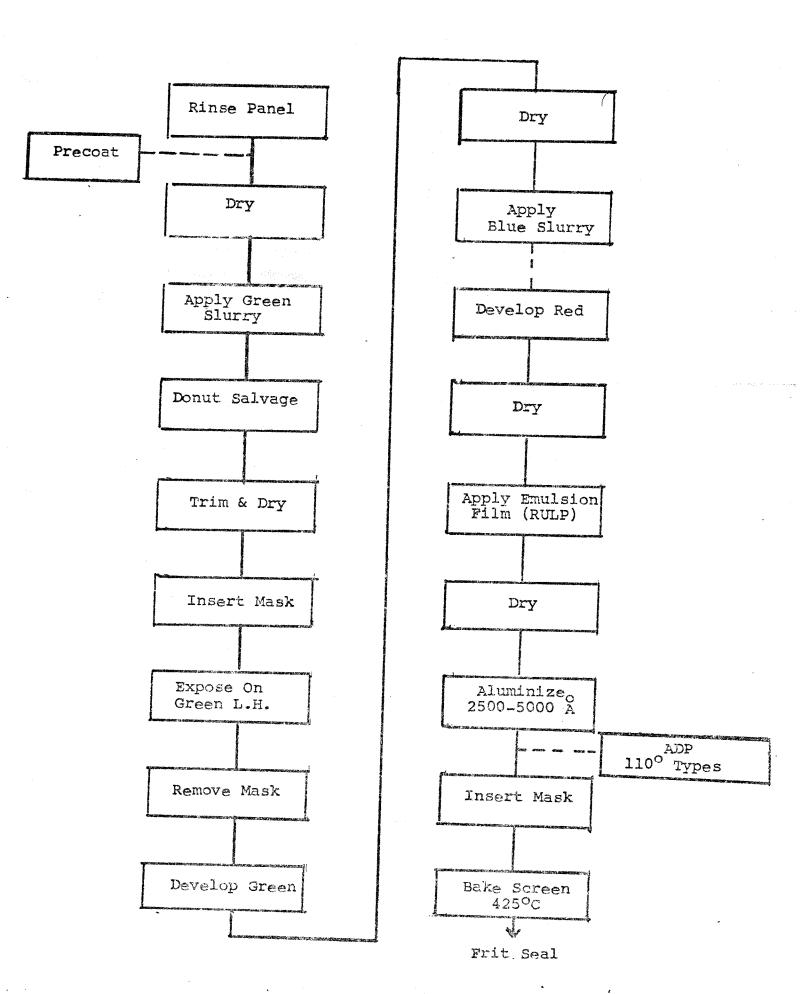
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-Prepare stock slurry ("stock" may vary with location)
    FVA (vehicle and helps to protect phosphor particle from mechanical fracture/damage)
    Phosphor powder
    Water
    Ball mill
-Dispensable slurry
    Add to stock slurry:
         Rhoplex (gives spreadability to slurry)
         Dichromate (might use Tamol)
         (?) may add ammonium vanadate (10 to 1 ratio with respect to dichromate)
        wetting agent. I-92
    PH adjusted
   Viscosity controlled 30-50 (green-about 30, blue and red-higher)
-Dispense slurry into center of panel
    control spin rate and tilt
    control temperature of panel, slurry
   necessary to control environment:
        -temperature
         -humidity
        -light (use yellow - dichromate other similiar materials less sensitive
                 to yellow light)
   Use Mateer, mixer (includes pump)
   Recirculating capability which can recycle all slurry except in the nozzle itself
-Dried screen weight (4mg/cm2)
-Spin (salvage position)
   -excess slurry fed back into Mateer; reused/blended with new dispensable slurry
   -excess slurry contains higher percent of "fines"
   -new slurry must be added to excess slurry to maintain proper phosphor particle
     size distribution/concentration/viscosity
   -excess slurry removed at additional positions goes into a trough and is removed
     for reclaiming at a different location using established phosphor reclaimation
     schedules
   This reclaimed phosphor can later be blended with new and become a part of a
   stock slurry.
    (heat)
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REFERENCE: Meeting with Marty Royce and Stan Harper on 6/17/74.

-- Clean penel edges

-Air cooled

- -Flood exposure (UV, about 30 secs.)
 through the glass to start reaction/developing of glass contact side
- -Lighthouse exposure
 green is first because it is least expensive phosphor
 makes green phosphor dots insolvable
 lighthouse exposure time (green-about 6-7 min., same for blue and red)
- -Wash off
 Del water
 leaves green dots, rest of phosphor washes off
- --Inspect
- -Repeat complete cycle for blue and then red



SCREEN APPLICATION Sel on y Unload to Unload to Blue Light Houses Conveyor 40 60 Load 59. 59 Mark 58 58 Blue Inspect Panel Develop 57 Final wash Inspect 54 54 55 65 54-54 Precoat Application **S**3-53 Blue Dot . 8 52 **52**. Blue Dry Film 51 -9 **51** Slarry Panel Dry Dry M \$0 50 49 49 Inspect 12 48 43 Green Dispense 47 13 47 Red Film Dispense Dispense Salvage 20140de 45 Red Salvage Blue Dispense 43 42+ Inspech -18 42 **-19** 19 41 41 Red 20 -20 40 40 Dot Green Shriy Dry 39 | 21 - 24 39 Red Storry Green Dot -22 - 22 38 38 Dry Dry -23 37 - 23 37 24 · 24 36 36 -25 25 35 75 Red 26 Develop 34 Green Inspect for 23 TP 34 Develop Instact -28 32 32 2 29 31 Unload to Unlead to Load Load Red Light Houses Green Light Hose's