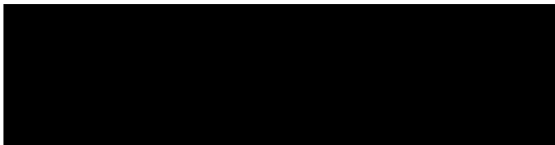


April 5, 1963



Setup: Film - SO 243, flash test and sensitometric strips
Process - D-19, 68°F, 3 minutes, Swifix 1 minute,
wash and dry.

Test I. Film over roller transport

- A. Uniformity across the film (9½) .02
- B. Flash density level .56
- C. Uniformity along length(12-14") .12
- D. Appearance - Bands across film, mottled very slightly.

Test II. Film over liquid bearing

- A. Run one
 - a. Uniformity across the film .12
 - b. Flash density level .60 - .72
 - Average .66
 - c. Uniformity along length(14") .07
 - d. Appearance - bad mottling, banding across film width.
- B. Run two
 - a. Uniformity across film .05
 - b. Flash level .68 - .73
 - c. Uniformity along length .03
 - d. Appearance - Badly mottled, bands across the film.

Control strip uniformity between 3 runs .03

My conclusions:

1. Non-uniform feeding of the film into the mock probably is causing the bands across film width.
2. 3 liquid bearing raised the density level an average of .10 density units.
3. I think a turbulator bar between each strand of film will decrease the density difference across the film to acceptable level.

STATINTL