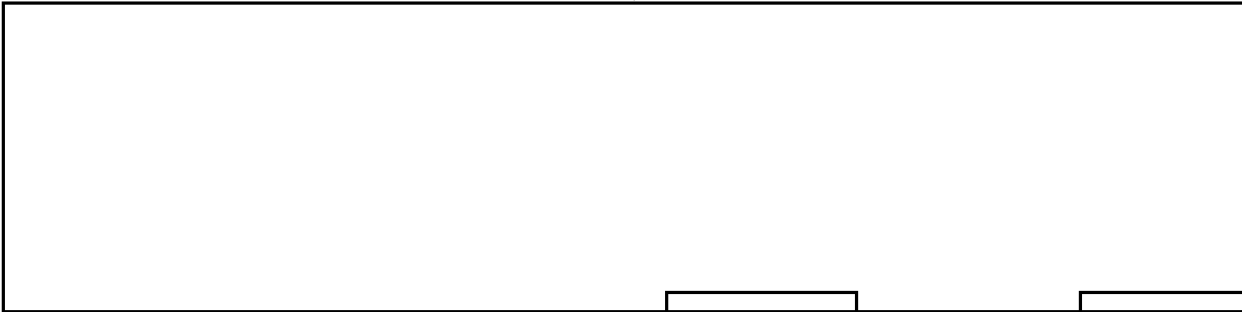


STAT

DATE September 1, 1966



STAT

Please note the excellent report [redacted] on the 9-1/2" [redacted] This work was completed according to schedule and was aimed at giving you preliminary design information to complete the 9-1/2" [redacted] using the films [redacted]

STAT

STAT

STAT

STAT

We communicated the conclusions to you last week verbally so that you could commence your 3-month program, completing the construction of the final machine. At that point, of course, we will fine tune [redacted] including setting up a replenishment system, over a period of two months. You will recall our conclusions were as follows and are taken from the report below.

STAT

1. The first two modules are to be combined into one, maintaining the same total length of about 20 inches. This will be the developer module. *OK*

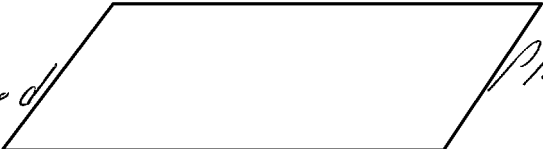
2. The third module, which we call the stop bath module, will remain the same length. *OK*

3. The fourth module, which we call the fix module, will be increased in length by 6 inches. *OK - need longer fix time.*

4. The fifth and sixth modules will remain the same lengths as they are presently. *OK.*

STAT

5. 5427 cannot produce archival quality and run at 10 f.p.m. We therefore will have the option of eliminating the archival quality or decreasing the speed of the machine to approximately 2 f.p.m. for this film. Such a decision must be made by the customer. The other alternative would be to increase the length of modules #5 and #6 by factors of 5 and 3, respectively, which is considered undesirable since it will affect the all over length drastically. *will accept slower speed or develop for non-archival.*

Discussed  *Plant on 10 Oct 66.* *R.B.*

STAT


September 1, 1966

STAT

9-1/2"



Program

6. You should also be aware that special attention needs to be paid to the air liquid relationship in order that a flat front of developer be presented to the film as the film enters the developer module in order to prevent undesirable non-uniformities. *gk*
7. Please note that the films  appear to be the longest drying films and should be the ones determining the drier characteristics. *Under Consideration*
8. I am concerned about the heavy loss in volume due to solution evaporation during the time it takes to run 1,000 feet of film. Please let this factor influence your design where possible. *Ditto*
9. The temperature is critical and should be comfortably controlled to no worse than $\pm 1/2^{\circ}$ F, especially in the developer module, at all available temperatures. *will be held*
10. You will note that we have operated at 110° F, and the total system must therefore operate easily and satisfactorily at 110° F in order to achieve the planned results. *Ditto*
11. It should also be noted that in order to achieve the uniformity and reproduceability required the machine drive should not produce a variation in linear speed of film travel in excess of \pm two percent. *Will maintain $\pm 2\%$*

STAT

RJG/c