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TO




DATE 23 February 1966

FROM

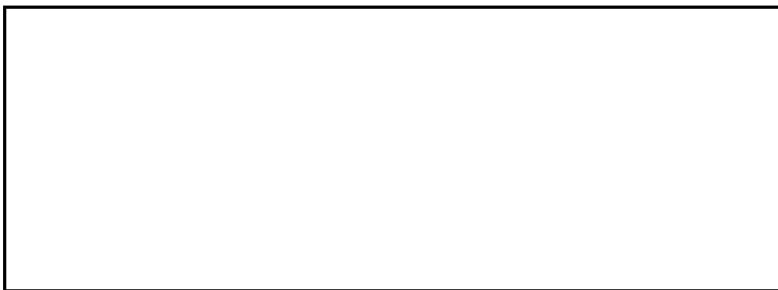
LOCATION



SUBJECT

Minutes of Meeting 15 Feb. 1966 **ORGANIZATION** CEA "A"
Meeting Held at 

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The purpose of the meeting was to discuss the results of the F.E.D. tests, machine controls and operation and schedule.

The problems presented by the monitors as a result of the F.E.D. tests were as follows:

1. Intermittant problem stopping on two frames of 70 mm film. What about 5" frames on 5" wide film with one inch frame separation.
2. Great difficulty stopping on 1/8" boundaries.
3. Poor tracking of transport, particularly with respect to the edge sensor.
4. Constant transport speed problem.
5. What is necessity for dancer roller.
6. What are transport speeds. Can they be varied to accommodate narrow boundaries.
7. What is minimum space between frames that can be sensed.
8. What adjustments by operator are necessary.
9. What is delivery schedule.

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These questions were discussed in length and resulted in the following:

1. Sensing of 2 frames of 70 mm film may be a problem because the sensing head is 5" from the gate, and the lamps require time to warm up. The latter problem can be possibly solved by turning the lamps on some milliseconds before the transport starts. The customer will accept 3 frames if 2 cannot be sensed. The customer would like to be able to print single 5" frames of 5" film. The problem is alleviated here, since the boundaries are likely to be one inch wide.
2. We cannot reliably sense 1/8" boundaries because of the large aperture size required by the photocells. The boundary "time out" circuit control will be made available to the operator. While frame detection may be improved by varying this factory-set control, false triggering within the frame may become more prevalent with certain types of images.
3. Transport tracking is a function of spool and guide roller alignment, threading of film properly on the spool, and spool quality. feels there will be no tracking problem in the printer. The frame edge detector aperture will be oriented along the length of the film to make it less sensitive to film wander.
4. Constant speed is a function of the film sensing arm-motor controls. These can be adjusted to provide nearly constant speed from one end of the roll to the other. (Less than 20 per cent variation)
5. The dancer roller is required to smooth out transients in the transport operation. It is not possible to prevent contact with the emulsion; however, highly polished and hardened rollers will be used to prevent scratching. The rollers will be conductive if required to prevent static electricity build-up.
6. Maximum negative transport time will be approximately 3 seconds for a 30" advance. For longer than 12" advances, high speed advance will be coupled with a 1/3 speed slow

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down for the last 5" of advance. With shorter than 12" advances, film is always advanced 1/3 speed.

7. The minimum space that can be sensed is a function of many variables, such as uniformity of boundaries, density, etc. It may be possible to sense 1/8" boundaries under certain conditions if a proportionately high percentage of false triggers can be tolerated.
8. The customer requested that, in the event of a skipped frame, the transport be stopped and a failure indication be provided on the control panel.
9. Adjustments required by the operator will probably be as follows:
 - A. 3 position switch: (1) low density boundaries, (2) high density boundaries low range, (3) high density boundaries high range.
 - B. 4 position Mode Switch:
 1. Fixed density reference
 2. Equality
 3. Combination of (1) and (2)
 4. Edge reference
 - C. Reference Density Control associated with mode (1) above.
 - D. Frame Length Timer Control
 - E. Boundary Timer Control
 - F. Skipped frame reset pushbutton

These are described elsewhere in a summary memo prepared by [] on 14 February 1966.

The meeting was continued at the [] shop where the Printer and Pre-View and Punch Station were shown to the technical monitors.

After examination the following conclusions were agreed upon:

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1. The F.E.D. controls would be located on the F.E.D. chassis above and behind the raw stock supply spool.
- 25X1 2. would light-seal the upper raw-stock pull out drawer in accordance with the Design Plan. This will further permit use of a standard white light for viewing rather than a safelight, if required.
3. The pre-view and punch station would be mounted on legs. An attempt would be made to provide microscope and controls at a comfortable operating height when the operated is seated.

A schedule was presented to the monitors (enclosed). It was pointed out that this did not contain much contingency for component delivery and was our best estimate at the present time.

25X1 An advance copy of the operators manual was delivered to for comment.

HLB:jc

Attachment



PLI-82 PRINTER-1
 SCHEDULE MILESTONES

