

April 22, 1958

**FILE MEMO**

**SUBJECT: Standard Printer for Project 7000**

1. **Chain Printing** - Currently models are under development which will have transistorized control units. Completed models are expected in September and November 1958. Product Testing is expected to be completed in December 1958. Production models should be available August 1959.

The complete description of this printer is available in the Project File. However, modifications under consideration include tapeless carriage control and modifications of the character sets. Relative to Project 7000, it was indicated that expansion of the character set to 60 characters would probably not reduce the speed of 600 lines per minute. Expansion to an 80 character set would result in a loss of speed to approximately 360 lines per minute.

2. **CRT Printing** - Current models under development include an "on-line" device for use with 704-709 systems and an "off-line" device for use with a tape synchronizer and tape drive for 15 KC tapes. Both models exhibited were "tube" models. Solid-state models are presently under consideration but development presents some definite problems. No dates were available for release of a solid-state model.
3. **Magnetic Printing** - No development models were expected in the near future. This process apparently requires more research into reliability factors and resolution.
4. **Miscellaneous** - Other printing devices, which might be considered, are available in the product line. However, with the exception of Wire Printing these are too slow. Wire Printing seems to be too unreliable for consistency with the Project 7000 design objectives.
5. In view of the imminence of available production modes of the Chain Printer, in August 1959, it is felt that this device represents the most natural choice for the Project 7000 systems as a standard "on-line" printer.

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The CRT printer has extremely interesting possibilities in view of its dual printing and plotting facilities. If an "off-line" model operating from "binary tape" could be considered for the immediate future, I believe that the Senior 7000 System customers would welcome it. If a transistorized model were available for "on-line" operation this would be even more desirable.

Both Chain Printing and CRT Printing appear to be relatively easy to connect to the Exchange through simple adapters.

EWC/jcv

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