

Date: June 9, 1970

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REC'D — PALO ALTO

JUN 11 1970

SCIENTIFIC CENTER

IBM

Subject: Mr. S. W. Dunwell's Supporting Memo on R. L. Garwin's Proposal,
Dated May 18, 1970.

Reference:

To: IBM Fellows
Mr. G. F. Kennard
Dr. E. R. Piore

The attached is forwarded to you at the request of Steve Dunwell.


J. E. Milano

JEM/dec

cc: Dr. J. E. Bertram

f) LINE SPEED

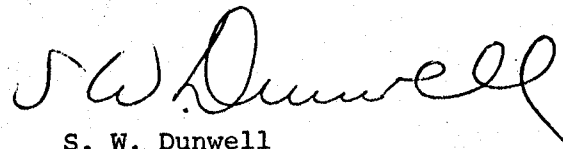
It should be possible to use lines with information rates from 75 baud to 50,000 baud.

g) BUFFER

The terminal should include a data buffer of sufficient capacity to permit it to accept data in bursts over a very high speed line.

h) NO "INTELLIGENCE"

There was discussion of "intelligent" terminals at the recent conference. I see no need for "intelligence" in this unit. The IBM 2741 terminal, which provides nothing but a keyboard and printer, has been much more successful than the IBM 1050 terminal, which offers card reading and punching, paper tapes, etc. as options.



S. W. Dunwell

SWD:jc

cc: IBM Fellows
CTC Members & Staff

F E Division - Poughkeepsie
Department H-76, Fox Street
Extension: 255-8474

May 28, 1970

Memorandum to: IBM Fellows
Subject: Faster Printing Terminal
Reference: Dr. R. L. Garwin's letter of May 18, 1970

This letter is written in support of Dr. Garwin's proposal for a faster terminal. Since some IBM Fellows are directly concerned with printers and terminals, I am offering the following amplification on the specifications:

a) SPEED

Dr. Garwin's speed figure of 300 characters a second is a good one to shoot for. At the same time, we should bear in mind that telephone lines with greater than 2400 baud bandwidth are coming into increasingly common use. The terminal should print as fast as it can be made to. Whatever can be achieved will be used.

b) NO CARBONS

As Dr. Garwin points out, it is not necessary to provide carbon copies.

c) CHANGEABLE ALPHABET

The character set must provide 88 or more characters, and must be changeable. Without these features, many important applications such as APL are precluded. If possible, the alphabet should be selectable or loadable from a computer.

d) ACOUSTICAL COUPLER

The unit should operate through an acoustical coupler so that an AT&T data-set is not required.

e) PORTABILITY

The terminal should be portable. One of the great advantages of portability is that portable units can be sent to a factory maintenance center for periodic overhaul. The customer can bring the terminal to IBM, rather than IBM sending a customer engineer to him.