# NOTE
*an internal working paper*

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## PRINTER (1401) TIMING CONSIDERATIONS

Since the 1403 printer is controlled by a computer (1401), and printer availability for on-line operations is a function of the program in the 1401, there are certain timing possibilities which must be considered in programming the printer. Specifically, the "printer" may be "busy" and not "not ready," or "not ready" and not "busy," or neither, or both. The "busy" indicator is on if the printer has been selected prior to the word count from a previous operation being reduced to zero. The "not ready" indicator is on if the printer has been selected and the 1401 program has caused the "program ready" flip-flop to be off, or if the 1403 is not ready.

Therefore, when writing the printer, "not ready" and either busy or complete should be sensed. Two sample sets of code are as follows:

```
BSN,743        $+1         CLEAR BUSY
SL∅,03,W       . .
BSN,700        $-2         SENSE NOT READY
BSN,743        $-2         SENSE BUSY

BSF,674        $           WAIT COMPLETE
SL∅,03,W
BSN,700        $-1         SENSE NOT READY
```