## COMPANY CONFIDENTIAL

# PROJECT STRETCH

#### FILE MEMORANDUM #23

SUBJECT: High Performance Tape Specifications

BY: W. Wolensky

DATE: February 9, 1956

A meeting was held February 7, 1956 to determine the specifications for a High Performance Tape Handling System, which could possibly be developed within three and one-half years.

### Persons in attendance:

| Mr. J. W. Backus  | Mr. L. S. Snyder |
|-------------------|------------------|
| Mr. L. Blenderman | Mr. H. K. Wild   |
| Mr. W. S. Buslik  | Mr. V. R. Witt   |
| Mr. S. W. Dunwell | Mr. W. Wolensky  |
| Dr. W. A. Hunt    |                  |

# Specifications for High Performance Tapes:

- a) Ready in three and one-half years maximum (preferably two and one half-years).
- b) Reel capacity 1200 feet, 3 inches wide tape
- c) Start-Stop time 10 ms, 3 inches gap between records
- d) Backup time 40 ms
- e) Bi-directional tape drive and tape read
- f) Automatic tape loading
- g) Tape to contain 40-45 tracks (probably 30-36 information tracks).
- h) Velocity 300"/sec.
- i) Bit density 1200/1000 bits/inch; 500 words/inch; 150K words/sec; 6.7 µs/word; 7.2 x 10<sup>6</sup> words/reel; block size for 80% tape utilization = 6000 words/block.

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