



25 April 1961

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MEMORANDUM FOR: Chief, TISD

SUBJECT: Outline of Material to be Discussed Concerning the
[redacted] Stereocomparator

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The following information is to be discussed with the representatives
of [redacted]

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A. Output Devices - Terminal outputs is to be provided through an electric typewriter and paper tape punch. The following products have been selected, subject to approval of the [redacted] engineers.

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B. Output Code [redacted] technicians will be provided with a copy of the [redacted] paper tape code. In addition we will discuss the problems of converting the code to any code up to 8 channels for future computer use.

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C. Output Symbols - The following output symbols are required: 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, sign (-), period (.), space, carriage return, and tab. In addition, the following symbols are recommended subject to the flexibility of the accumulator output. Error code 1, error code 2, and end tape code. They shall each consist of one unique character and a carriage return.

D. Output Format - It is desired that the output sequence be provided by a plugboard, preferably one which can be interchanged intact for various formats. Additional plugboards may then be wired for various output formats increasing machine efficiency. In the event this is not possible the set format will then be resolved with Ferranti.

E. Instrument Controls - Determine if the instrument controls provided are satisfactory to meet our requirements. The following controls are desired, subject to the [redacted] versatility.

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Declass Review by NIMA/DOD

1. Tape feed - need not be remote
2. Zero reset - control panel (remote)
3. Output selector - 3 position (typer only, punch only, typer and punch) need not be remote
4. Error code 1 - control panel
5. Error code 2 - control panel
6. End tape - need not be remote

F. Buffered Storage - readout on the fly and optional contact fault detector required.

G. Output Speed - Should have a minimum of 8 characters per second with a typer hard copy output, and up to 20 characters per second, excluding typer.

H. Operational and Maintenance Considerations - The following will be discussed:

1. Theory, installation and maintenance of the [redacted] products. STATINTL
2. Review circuitry to insure understanding all symbols and unique circuits used.
3. Obtain as much data as possible on all electrical components so that domestic products may be selected for replacement purposes.

I. Miscellaneous - It would be desirable to be able to enter data by hand on the typer and have it punched simultaneously on the punch. If possible, the punch should be rack mounted along with the accumulator.

J. [redacted] all engineering drawings will be minutely studied to insure that no optical or mechanical function has been included or excluded because of prior misconceptions. According to [redacted] some of the mechanical motions have been assembled and much of the optics has been completed and mocked up for our inspection. [redacted] informed us that the [redacted] Plotter was in an advanced stage of completion and would subsequently be of considerable interest to us.

PIC/TISD/TIB [redacted]

Distribution:

- Original - Chief, TISD
- 1 - Executive Director
- 1 - [redacted]
- 3 - TISD/TIB



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