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Mr. W. Buchholz                                 February 13, 1957

Subject:        Desirable Characteristics of
                Remote Inquiry Station

Reference:      Meeting of 2/11/57 with Messrs.
                Calvert, Fletcher and Gibson


1.      The Remote Inquiry Station should be designed to provide
        for random interrogation of the Stretch Computer from
        anywhere in the phone line network of AT & T.

2.      Two types of phone service: private (leased) line and
        message (toll) line.

3.      Two-way transmissions on a single phone line.

4.       Minimum operator intervention to insure correct trans-
        mission.

5.      Any Inquiry Station can dial into any one of several Inquiry
        Buffers (at computer end of line).

6.      Input/output channels which are separate now in the
        Exchange should be so kept.

7.      It is highly desirable to check transmission at such a rate
        as to make it invisible to the operator.

8.      Maintenance checking by local closed loop techniques should
        be provided.

9.      A Multiple error detection code for phone line transmission
        should be provided.  (4 of 8 code is contemplated. )

10.     As is true of all input/output units, the Inquiry Buffers shall
        have permanent physical addresses, but since any Inquiry
        Station can dial any Inquiry Buffer, identification information
        must be sent to the computer.

11.          The computer should be able to address the Inquiry Station
             and send information without prior initiations from the
             Inquiry Station operator.

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