

MEMORANDUM

18 May 1948

Mrs. Pierce
Please refer
up projects

SUBJECT: Communication Facilities Plan.

The preparation of this plan will be initiated immediately and will be sub-divided into four projects.

Project 81-20-48 entitled Communication Facilities Plan; teletype equipment, will be assigned to Mr. Smith.

Project 81-21-48 entitled Communication Facilities Plan; radio equipment, will be assigned to Mr. Wolfand.

Project 81-22-48 entitled Communication Facilities Plan; wire facilities and telephone equipment, will be assigned to Captain Luce.

Project 81-23-48 entitled Communication Facilities Plan; facsimile and television equipment, will be assigned to Mr. Scott.

The preparation of this plan will be accomplished in three sections -

Section 1 - equipment in use

characteristics
how used
by whom
advantages
disadvantages

Section 2 - equipment under development

characteristics
by whom
history of development -
MC's
Technical Committee action
specifications

Section 3 - future trends

Review of the first two sections with indicated communication plans for each service as developed in these first two sections. Full development of future trends.

This plan will be prepared in chart form wherever practical. Each section shall be layed out in the same manner for each four projects. Coordination as to details of layout will be coordinated at a later date.

The following subjects will have to be investigated under Project 81-20-48:

- Teletypewriters
- Perforators
- Reperforators
- Typing reperforators
- Transmitting distributors
- Diplex
- IBM printers
- McElroy printers
- Test equipment
 - Teletype analyzers
- Multiplex
 - Time Division
 - Electronic
- Carrier
 - Teletype only
- Switchboard
- Repeaters

The following organizations should be contacted concerning this project:

- Teletype Corporation
- Klienschmidt
- Lorenz (IBM)
- Signal Corps (McElroy)
- Air Force
- Navy
- Associated Press

Under project 81-21-48 the following firms should be contacted:

- Aeronautical, Inc.
- RCA
- A T & T
- Western Union
- Signal Corps
- Navy
- Air Force

In addition to radio equipment, infrared and visual light transmitting and receiving equipment should be investigated.

Under project 81-22-48 the following items should be investigated:

Telephones
 Switchboards
 Repeaters
 Carrier equipment
 Open wire
 Field wire
 Field cable
 Coaxial cable
 Wave guides
 Cable
 Lead covered
 Armored
 Submarine
 Rubber covered
 Loading coils
 Pads
 Attenuators
 Filters
 Hybrid coils

Information should be secured from the following organizations:


Western Union
 A T & T
 Signal Corps

Under project 81-23-48 the following firms should be contacted:

RCA
 Philco
 Signal Corps
 Air Force
 Navy

It is requested that each engineer discuss separately with me the information available and the method of attack on this problem.

It will be necessary to devote at least one day out of each week toward the preparation of this plan. It is preferable that more time be devoted but one day each week is mandatory. The project reports on these projects must be prepared in detail.


 WILLIAM BRANN
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 Security Division
 Extension 388

Development of Equip for tapes for CIA.
24-48 - Dave W. - 24 May 48.