

25X1A6a

TECHNICAL SECTION

Overtime -

- 1. Staff Employees 66 Hours.
- 2. Contract Employees 0 Hours.

T & I UNIT

- 1. Eleven transceivers were channalized this month.
- 2. All RT-49's received this month were rejected. Problems are mechanical, workmanship, and low power output.
- 3. Again, indications are that the SBE-2's will all be accepted within the next month. Twelve units have been accepted in-plant but not received by FTS yet.
- 4. Listed are some of the items of equipment processed this month:

	<u>Accepted</u>	<u>Rejected</u>
Seven G.E. Portamobiles	7	0
Seven Singer Metrics Noise & Sensitivity Meters	7	0
Nine G.E. Master Base Units	7	2
Five Motorola Handie Talkies	5	0
Four Singer Metrics Square Wave Generators	4	0
Two Ampex AG 350 Reproducers	2	0
Five Nothern Type 105 FSK's	5	0
Forty RR-49 Receivers	38	2
Sixteen KE-C/8 Keyers	12	4
Seventy-two ASR-100 Transceivers	67	5
Eleven Astro Signal Display Units	10	1
Six SP-600 VLF Receivers	6	0
One hundred twelve KE-8E Keyers	99	13
Twelve Frederick FSK Demodulators	11	1
Six CEI Model 444 Oscillographs	6	0
Five Kelcom R-2 Receivers	5	0
Five Kelcom T-2 Transmitters	5	0
Four LSSB-63-1A Exciters	0	4
Nine Collins 180S-1 Antenna Tuners	9	0

	<u>Accepted</u>	<u>Rejected</u>
Five Tektronix 3L10 Spectrum Analyzers	3	2
Thirteen National HRO Receivers	10	3
Four Collins 51S-1 Receivers	4	0
Fifty HG-48A Generators	50	0
Sixty-one BC-48A Battery Chargers	61	0
Twenty-two RT-57 Transmitters	22	0
Fifteen G.E. Master Line Transceivers	10	5
Thirty BS/D-48A Battery Supplies	28	2
Thirteen BC-48 Battery Chargers	13	0
Thirty-six CA/A-3 Cartridges	36	0
Thirteen RS-50 Transceivers	10	3
*Fourteen AN/PRC-25 Transceivers	14	0
*Two Fisher Model F810X Transceivers	0	2

IN-PLANT INSPECTIONS

	<u>Company</u>	<u>Location</u>	<u>Equipment</u>	<u>Accepted</u>	<u>Rejected</u>
25X1A5a1				2	0
				12	8
				5	0

ELECTRONIC/TELETYPE REHAB UNIT

1. The Electronic Technicians processed one hundred thirty-nine items of PTI equipment, thirty-nine items on job orders, five items on repair requests, and nine items on receiving vouchers.
2. Sixteen items of teletype equipment were processed on receiving vouchers and fifteen items on cargo vouchers.
3. Three 3 Circuit TTY Field Stations were wired and checked.
4. A total of seventy-four PRC-10's were processed from C-5 stock to C-1 stock.
5. A total of one hundred six pieces of RS-6 equipment was processed from C-3 stock and sent for disposal.

*Checked at the [REDACTED]

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6. The monetary value of the C-3 run has been reduced from \$663,963.94 in April 1965 to \$67,598.71 in 1966.

ENGINEERING UNIT

1. The Bird Model 8251 (1,000 watt) 50 ohm termination was substituted for the Bird Model 8201 (500 watt) on the Standard Test Equipment List.
2. A Test Procedure for the BS/D-48 was distributed for comments, and the procedure for the HG-48A was submitted for publication.
3. The ASR-100 Alignment Test Jig was received from [REDACTED] and 25X1A5a1 will be evaluated at FTS.
4. Discussions were held with Mr. [REDACTED] in 25X1A5a1 reference to a carrying case for KY-3 boards.

CALIBRATION UNIT

Thirty-three pieces of test equipment were processed and returned to service. Two new items for the shop were checked, and one item for cargo was processed.

MECHANICAL UNIT

1. Approximately ten individual projects were finished this month. Projects still to be finished are vacuum adapters, personnel planning board, and generator test set.
2. A battery charging accessory device to accomodate twenty-five TR/78 batteries was designed and constructed.

POWER UNIT

1. Eight different power units were checked this month and finished cranking modification on the Onan 25 KW units.
2. Routine check was performed on W.E.T.A. Tower power unit and Commo trucks.

CRYSTAL UNIT

Within six months, we expect to process eighty per cent of all crystal orders in our lab and send out less than twenty per cent of the orders to vendors.

[Handwritten initials/signature]

Totals	Requisitions	Crystals
New Orders	69	1640
Orders Completed	41	885
Backlog	8	1055
Due In	16	3179

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One hundred fifty-eight debit vouchers totaling three hundred sixty-six line items and nineteen cargo vouchers consisting of seventy-six line items were processed this month.

GENERAL COMMENTS

1. A general sprucing up of the bay area has been initiated and should be completed within two months.
2. Of the employees presently at FTS, four have just completed university courses, four are working on CREI at home, three are studying for tech exams in the evenings at FTS, and two are studying technical courses at home. Six people intend to enroll for university courses next fall.

TSE SUPPLY

1. As of 26 June 1966 a total of \$257,985.00 has been expended since 1 July 1965.
2. For the period 26 May 1966 through 26 June 1966 a total of \$12,424.10 was expended on four requisitions consisting of 151 line items.
3. A total of 58 field requests consisting of 975 line items were processed of which 883 were shipped directly from stock.

~~GROUP 1
Excluded from automatic
downgrading and
declassification~~

LANGLEY TECHNICAL SECTION

General

- 25X1A9a
1. Mr. [REDACTED] assumed the duties as Chief of the Wire Unit on the 20th of June.
 2. The KY-3 training program for three technicians who are assigned to the Electronic Unit was completed on the 24th of June. Five technicians are now KY-3 trained. With eighty-five KY-3 units operational in the Washington Area and more installations pending, this is a welcome addition.

I. Wire Unit

1. Main Signal Center

- a. The preventive maintenance schedule for the month is current.
- b. Sixty-six selector magnet shields modification have been installed on teletype equipment in the Washington Area. This is slightly more than ten percent of the total to be modified.
- c. The low level keying test utilizing a specially modified numbering module with gold plated wiper switch contacts has been operating satisfactory for one month. We are satisfied that this solves the garbled numbering problem.
- d. T.D.Y.

Responded to two TDY requests from OC-AD to repair and service HW-19 equipment in [REDACTED] and to repair and service KW-7 equipment in the [REDACTED].

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e. Installations

- 1) Installed two KW-7 circuits in the Signal Center Washington Terminal Section. This is the first step to replace all of the HW-19A equipment in the Signal Center with KW-7 equipment.
- 2) A temporary KSR installation was placed in Room 3B001, Headquarters. The circuit was installed to cover the [REDACTED].

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~~SECRET~~

I. Wire Unit (Continued)

- 3) A second TWX/KW-7 circuit was installed in Room GE-31, Headquarters.

2. Trouble Reports

Troubles reported and corrected in the Washington Area are as follows:

a. Langley Signal Centers

1) Cryptographic Equipment	-	85
2) Teletype and Miscellaneous Equipment	-	<u>280</u>
TOTAL:		365

b. Outside Area Signal Centers

1) Cryptographic Equipment	-	8
2) Teletype and Miscellaneous Equipment	-	<u>10</u>
TOTAL:		18

II. Electronic Unit

1. KY-3 Program

- a. We experienced a considerable amount of false ringing problems on the off premises KY-3 circuits during the early part of the month. A Telephone Company engineer was dispatched to Headquarters on 14 June and he apparently corrected the problem. No false ringing troubles have been reported since the above date.

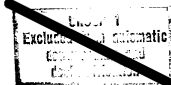
b. Installations

Installed a KY-3 with two desk set extensions in Room 3E14, Headquarters.

c. Relocations

- 1) Relocated a KY-3 with two desk set extensions from Room 6B28 to Room 5G00, Headquarters.
- 2) Relocated a desk set in Room 6B13, Headquarters.

~~SECRET~~



II. Electronic Unit (Continued)

d. Eighty-five KY-3 sets are now operational. The following reflects the troubles for the month.

- 1) KY-3 Troubles - 28 each
- 2) Distant End Troubles - 3 each
- 3) Operator Error - 14 each
- 4) Telephone Company - 16 each

TOTAL: 61 each

2. CIA Cifax System

The system has been trouble free this month.

3. BCI/SO Very-High-Frequency Net

No troubles were reported this month.

4. Microwave

a. Preventive maintenance of the complete microwave system was accomplished.

b. The air-conditioner in the Headquarters Microwave Room has been repaired.

c. No troubles were encountered this month.

5. HY-2/KG-13 Headquarters/Saigon Secure Voice Circuit

No troubles were reported during this reporting period.

OVERTIME

A total of one hundred and ninety-two hours was worked during this reporting period.



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