

LANGLEY TECHNICAL SECTION

General

We have started plans to consolidate the spare parts system for the Electronic and Wire Units. This will free storage areas for additional work space.

I. Wire Unit

1. Outside Area Activities

a. Wired in a simulated field station at the [redacted]. Twenty manhours were used to complete the project.

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b. Revamped the KW-7 installations at [redacted] according to new Comsec requirements.

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2. Main Signal Center

a. G.S.A. has completed the work in the new Red Frame Room. Cable racks were installed, lights were lowered, and AC power was terminated.

b. Installed a 250 ampere power in the Washington Terminal Facility Section. This is to meet new Signal Center expansion requirements and to prepare for the future MAX installation.

c. Relocated ten KSR printers in the Washington Terminal Facility Area.

d. Removed all teletype equipment in the Telecon Room.

e. The service schedule is current for this period.

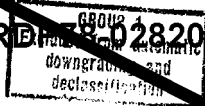
f. Troubles reported and corrected for the month are as follows:

(1) Langley Signal Center

a) Cryptographic Equipment - 60

b) Teletype and Miscellaneous Equipment - 251

TOTAL 311



I. Wire Unit (Continued)

(2) Outside Area Communication Centers

| | | |
|---|---|-----------|
| a) Cryptographic Equipment | - | 9 |
| b) Teletype and Miscellaneous Equipment | - | <u>27</u> |
| TOTAL: | | 36 |

II. Electronic Unit

1. KY-3 Secure Voice Program

- a. Audible alarm and ringer modifications were performed in six different locations.
- b. Three KY-3 units were loaned to the C&P Telephone Company for testing the console.

c. Troubles reported and corrected for the month are as follows:

| | | |
|----------------------|---|---------------|
| 1) Set Troubles | - | 49 each |
| 2) Distant End | - | 5 each |
| 3) Operational Error | - | 16 each |
| 4) Telephone Company | - | <u>9 each</u> |

TOTAL: 79 each

- d. The preventive maintenance schedule is current. All units are now undergoing monthly and quarterly checks.

2. CIA CIFAX - 7th Floor

Four troubles were reported and corrected this past month.

3. Microwave System

- a. Three troubles were reported and corrected. The auxiliary power unit at [REDACTED] was checked and a new automatic timer unit was installed. 25X1A 25X1A
- b. The microwave [REDACTED] equipment for the [REDACTED] system from Headquarters [REDACTED] has been installed and tested. We are now waiting for C&P Telephone Company to connect the lines from the broad band switch to the Headquarters microwave site to complete the system.

II. Electronic Unit (Continued)

4. HY-2/KG-13 Saigon/Washington Secure Voice Circuit

The remote position for the handsets and tape recorders has been removed from the conference room and re-located to the Signal Center training room.

5. KY-5 Secure Voice

Eight troubles were reported and corrected this past month. This figure does not include the Distant End problems.

6. DCI/SO Very-High-Frequency Net

One problem was reported this month.

OVERTIME

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

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25X1A6a [REDACTED] TECHNICAL SECTION

Overtime -

1. Staff Employees - 40 Hours.
2. Contract Employees - 32 Hours.
3. Staff Employees donated in excess of 70 hours this month.

T&I UNIT

1. A scale model of FTS was constructed from styrofoam and is being utilized for future planning.
2. An ASR-100 Alignment Procedure was tested at FTS and appears to be satisfactory. No special test jig was necessary to align the units.
3. Five ASR-100 Transceivers were given a water immersion test and all units were acceptable.

25X1A5a14. [REDACTED] personnel have been working on the 8-PAC system. A separate report will be submitted concerning this work.

5. The AC-3 Antenna Couplers tested at FTS have presented difficulties with the internal dummy load and the associated thermal overload interlock. A number of units were rejected.

25X1A5a16. Ten [REDACTED] Recorders were rejected for mechanical and electrical faults. The overall mechanical quality was poor.

7. Listed are some of the items of equipment processed this month:

| | <u>Accepted</u> | <u>Rejected</u> |
|-------------------------------------|-----------------|-----------------|
| Twenty-three TEK 561A Scopes | 20 | 3 |
| Forty-three RR-49 Receivers | 23 | 20 |
| Forty-two 51S-1 Receivers | 35 | 7 |
| Ninety-seven GE Portamobiles | 91 | 6 |
| Two-hundred-three HG-48A's | 203 | 0 |
| Thirteen SP-600 Receivers | 11 | 2 |
| Fifty-eight RT-42 Transmitters | 44 | 14 |
| Twenty-four RT-49 Transmitters | 16 | 8 |
| One-hundred-eight RT-3 Transmitters | 94 | 14 |
| Twelve Ampex 622 Amplifiers | 2 | 10 |
| Twenty-four TE-2 Code Trainers | 23 | 1 |
| Thirty-three ASR-100 Transceivers | 30 | 3 |
| Sixteen RCA Mark IV Transceivers | 15 | 1 |
| Four HRO-500 Receivers | 0 | 4 |
| Eleven RT-72 Transmitters | 10 | 1 |
| Fifteen CEI 905-1 Receivers | 15 | 0 |
| Thirty HPAS-1A Antenna Tuners | 30 | 0 |

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IN-PLANT INSPECTIONS

| <u>Equipment</u> | <u>Mfr./Location</u> | <u>Accepted</u> | <u>Rejected</u> |
|------------------|----------------------|-----------------|-----------------|
| HFAS-1A | [REDACTED] | 30 | 0 |
| GPE-1A | | 15 | 0 |
| SBE-2A | | 2 | 0 |
| GPT-750 | | 3 | 0 |
| SBE-8 | | 1 | 0 |

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REHAB UNIT

1. One-hundred-eleven items of electronic equipment was processed on PTI's, thirty-six items on job orders, fifty-five items on repair requests and four items on cargo.
2. Sixty-seven items of TTY equipment on receiving, thirty-six items on cargo, two items on job orders and four items on PTI. Thirty-two items were major pieces of equipment.
3. A prototype adaptor kit for the KWM-2A was constructed and sent to Mr. [REDACTED]
4. Mr. [REDACTED] assisted the T&I Unit, for a portion of a week, with priority Allocation 26 equipment.

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ENGINEERING UNIT

1. A General Test Procedure for Tape Recorders has been started and an outline of proposed tests was distributed for comments. A number of test standards and text books were requested through OC-E Library.
2. [REDACTED] is in serious financial difficulties and the long delayed delivery of the LA-40A Spectrum Analyzer will be further postponed. The possibility of bankruptcy is very real so a suitable replacement analyzer is being investigated.
3. Test procedures for the R-390A, Bayside 990PW, AC-3 Antenna Coupler, HFAS-1A, OS/A-8 and the ASR-100 are completed or being written.
4. The Bayside 990PW Transceiver was tested at Stockton, Calif. and test procedures were reviewed. A water immersion test was unsatisfactory but is reported to have been improved.
5. The HP Symposium on Test Instrumentation was attended on 20 - 21 September by [REDACTED] in conjunction with the Bayside 990PW Transceiver trip.

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25X1A6a 6. The R&D Lab and [REDACTED] were visited by the Engineering Unit personnel. Subjects discussed were Tape Recording/Reproducing and the Kahn Exciter.

25X1A9a 7. [REDACTED] accompanied other Agency personnel to [REDACTED] 25X1A5a1
25X1A5a1 [REDACTED] to discuss the BP-12/CA-12 and Spotmaster Recorder.

25X1A5a1 8. [REDACTED], discussed service contracts and means of improving [REDACTED] service. A scheduled pick up of equipment at FTS was the main result.
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CALIBRATION UNIT

1. Thirty items of test equipment were processed and returned to service.
2. Eleven new pieces of test equipment were checked and issued for cargo or stock.
3. The Motorola Frequency Standard at FTS had a power supply failure that allowed the crystal oven to completely cool down. The unit was repaired and the error was approximately 1 part in 109 one hundred hours later. A continuous phase comparison with WWVB shows the present drift at less than 2 parts 10¹¹ per day.

MECHANICAL UNIT

Nothing to report.

POWER UNIT

1. The automatic timer in the transfer switch at [REDACTED] was found to be defective. A priority shipment from [REDACTED] provided a replacement unit and the tower installation is back to normal. 25X1A6a
2. Installation of a 40 HP Motor-Generator set at FTS is complete. This gives FTS capabilities of testing 50 cycle equipment with high power requirements. 25X1A5a1
3. Two power units f/u/w the 8-PAC were inspected. Two additional units are still to be tested. A comprehensive inspection report will be submitted when these units are checked.
4. Parts were inspected for eight cargo vouchers.

25X1A9a 5. [REDACTED] accompanied [REDACTED] on two TDY inspection trips. 25X1A9a

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CRYSTAL LAB

| Totals | Requisitions | Crystals |
|------------------|--------------|----------|
| Orders Received | 160 | 10189 |
| Orders Completed | 122 | 6971 |
| Back Log | 11 | 1220 |
| Due Out | 27 | 2596 |

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██████████ DEPOT

1. Material checked for receiving consisted of 135 debit vouchers totaling 396 line items. Material checked for cargo consisted of 18 shipments from stock totaling 39 line items.
2. The Halco HT-2 Transceivers are being checked 100% because of rejects for low RF output on the Air to Ground Transmitter. Fifteen units have been rejected of 118 inspected. The present backlog of HT-1D and HT-2 Transceivers is 581 units.

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3. The ██████████ Depot was visited by ██████████ on 23 September. Discussions were held regarding the operation of the ██████████ T&I Section.

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TSB SUPPLY SECTION

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1. As of 25 October 1966 a total of ██████████ has been expended for FY67.

The breakdown for the period of 27 September through 25 October 1966 is as follows:

| | <u>Reqn.</u> | <u>L/I</u> | <u>Cost</u> |
|----------|--------------|------------|-------------|
| Teletype | 3 | 50 | \$6,529.45 |

2. Field Requests

| | <u>Requests</u> | <u>L/I</u> | <u>L/I Initial Shipment</u> |
|--|-----------------|------------|-----------------------------|
| | 63 | 475 | 460 |

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3. A quarterly request for teletype spares from [REDACTED] on 15 and 21 October respectively were received. They consisted of 47 requisitions with a 1,000 line items. They have been screened and forwarded to the warehouse to be filled.
4. Recommended to OC-S an amended parts list for the KY-3A spares.

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GROUP 1
Excluded from automatic
downgrading and
declassification

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