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MONTHLY REPORT

TECHNICAL SERVICES BRANCH

ENGINEERING STAFF

1 October - 31 October 1965

and has been certified by OC-E. HK

25X1A

1. Mr. [redacted] wife passed-away 12 October 1965.

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2. Mr. [redacted] passed the certification examination and has been assigned as Chief of the [redacted] Technical Section on

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25 October, replacing Mr. [redacted] who was reassigned [redacted]

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3. The basic electronic course for Wire Technicians started on 25 October at the Signal Center. This course is intended to help prepare WET's for further electronic equipment training. Mr. [redacted] is instructing the course in lieu of CREI who started the program last year.

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4. All teletype equipment available for the ATF and Eight-Pac program was rewired and modified.

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5. Mr. [redacted] on his way to Africa to review assignments and training requirements of the technicians.

[redacted signature block]

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Chief, Technical Services Branch, OC-E

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LANGLEY TECHNICAL SECTION

General

1. The KY-3 installation program is well underway. We submitted nineteen work orders to the Space Allocation Division and we activated four KY-3 circuits this month. The Agency telephone switch has not yet been received, however, the space is available and the preliminary wiring is geared to easily adapt the present KY-3 installations to the new switch.
2. An Electronic Training Course for eight Wire Equipment Technicians and four CTC's began in the Signal Center Training Room on the 25th of October. The course is expected to last approximately four months.

Wire Unit

1. The routine maintenance schedule for the Main Signal Center and the Outside Area is up to date.
2. Troubles reported and corrected in the Washington Area, are as follows:

a. Cryptographic Equipment, Main Signal Center

(1)	KW-26	-	38
(2)	KW-7	-	5
(3)	HW-19A	-	23
(4)	HW-28	-	5
(5)	HL-6	-	20
(6)	████████	-	2
TOTAL:			<u>93</u>

25X9A2

b. Teletype Equipment

(1)	Main Signal Center	-	247
(2)	6th Floor ██████████	-	3
(3)	7th Floor	-	73
TOTAL:			<u>323</u>

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3. Outside Area

- a. The service schedule is one week behind.

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b. Cryptographic Equipment

A total of four troubles was reported and corrected.

c. Teletype Equipment

A total of forty troubles was reported and corrected.

d. All of the equipment is operating satisfactory and there were no equipment changes this month.

4. Preliminary drawings for the five year planning revision of the Langley Communications Center have been received.
5. We continue to have TWX data set problems on the local KW-7 Security Network. The Wire Engineering Section and the Langley Technical Section are working together on the problem.
6. Assembled and modified the necessary teletype equipment to satisfy two ATF van installations and one Eight-Pac System.

Electronic Unit

1. Very-High-Frequency Network

No troubles were reported.

2. Microwave

a. Nine troubles were corrected.

b. The modulator (MU-353) at the State Department was repaired and installed. The microwave standby system is now completely operational.

3. Ciphony

a. KY-3

(1) Eighteen troubles were reported and the breakdown is as follows:


- | | | |
|-----|--------------------------|----------|
| (a) | KY-3 Electronic Troubles | - 3 each |
| (b) | KY-3 Card Troubles | - 3 each |
| (c) | Telephone Line Troubles | - 8 each |
| (d) | Distant End Troubles | - 4 each |

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b. New Circuits

- (1) Replaced the KY-1 with a KY-3 on-circuit #18GW48-08 which terminates between the DCI Office and the White House switch.
- (2) Replaced the KY-1 with a KY-3 on-circuit #18GW-48-15 which terminates between the CIA Watch Office and the White House switch.
- (3) Replaced the two KY-1's with KY-3's on-circuit #42GW-43 which terminates between Room 5C18, Headquarters and [REDACTED] Building. 25X1A6a
- (4) Replaced the two KY-1's with KY-3's on-circuit #42GW-61 which terminates between Room 3E925, Headquarters and [REDACTED] office in the Pentagon. 25X1A9a

c. Work Order Status Report

- (1) Nineteen KY-3 installation plans were prepared and submitted to the Space Allocation Division. 
- (2) Emergency AC power wiring and signal cabling was completed by G.S.A. at twelve locations.

d. KY-1

- (1) Fifteen units were returned to [REDACTED] 25X1A6a
- (2) Six troubles were reported and corrected.

e. KY-5

Four troubles were reported and corrected.

f. KG-13/HY-2

Two troubles were reported and corrected. Much trouble was encountered trying to contact Saigon due to defective patching circuits at the Pentagon and a circuit breakdown in Saigon.

g. LDX/KG-13

Six troubles were reported and corrected. Most of the reported troubles are due to the lack of the operator's familiarization of the equipment.

h. Hi-Fi Systems

- (1) Two troubles were reported and corrected.
- (2) A new scotchflex audio cable was incorporated to improve the appearance of the Hi-Fi installation in Room 7E07, Headquarters

OVERTIME

A total of two hundred and eighty-four hours was worked during this reporting period.

a. Overtime worked at the Warehouse Project	-	200 hours
b. Overtime Worked at OC-E/LPS	-	45 hours
c. Overtime worked on the DCI KY-3 and Watch Office Installation	-	39 hours
TOTAL:		<hr/> 284 hours

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TSB SUPPLY SECTION

1. Expenditures -

As of 28 October 1965 a total of \$119,482.10 has been expended for FY 1966.

2. A cross reference list was prepared to show Trigraph Letters to Part Numbers of KG-13 coreboards to facilitate the ordering of KG-13 Parts Kits recommended by OC-E.
3. A KY-3 Parts List of DCRP was prepared for M.S.B. to order for Bulk Stock along with 66 KY-3 equipments.

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25X1A6a [REDACTED] TECHNICAL SECTION

Overtime -

1. Staff Employees 181 Hours.
2. Contract Employees 8 Hours.

T & I UNIT

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1. [REDACTED] representative, made repairs and tests on a C-100 Tape Recorder.
2. Forty RR-390 Receivers were received. Twelve units were rejected because of low 1 KC bandwidth, and six were rejected for various other reasons i.e., low 8 KC bandpass, low sensitivity, and weak audio output. The rejected units were repaired, and all receivers were put in stock.
3. The work load has risen to a point where overtime was required to process equipment.
4. Listed are some of the major items of equipment that were processed this month:

	<u>Accepted</u>	<u>Rejected</u>
Forty RR-390 Receivers.	22	18
Fifty Tripplet 630 PLK Meters.	50	0
Twenty-four Delco 5300 Radio Sets.	23	1
Twenty-nine 51S-1 Receivers.	24	5
Ninety CA-12 Cartridges.	90	0
Fifteen Motorola Pockett Receivers.	14	1
Twelve Ampex PR-10-2 Recorders.	8	4
Sixty-eight Northern Keyers and Converters.	57	11
Six RS/506 Receivers.	6	0
Seventeen Motorola H-23 Transceivers.	16	1
Fourteen AN-59 Antenna Couplers.	14	0

IN-PLANT INSPECTIONS

25X1A9a

1. [REDACTED] visited [REDACTED] to test and inspect five XFK's, two HFD's, and one LMC. One of the XFK's was rejected.

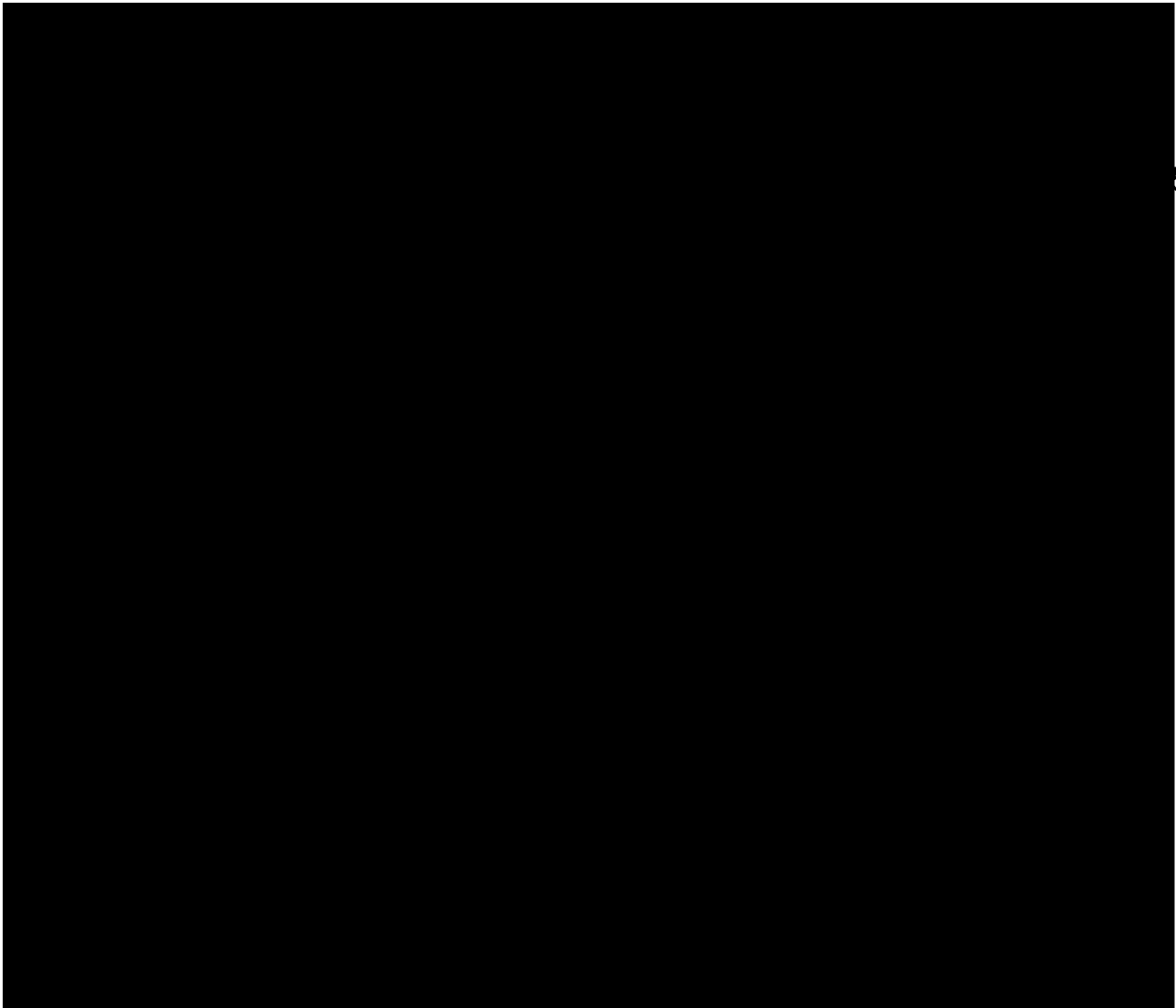
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GROUP 1 Excluded from automatic downgrading and declassification

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ELECTRONIC/TELETYPE REHAB UNIT

1. The Electronic Technicians processed eight PTI's, four repair requests, and fifty-six job orders.
2. The Teletype Section processed twenty-six receiving reports and twenty-seven cargo vouchers.
3. All teletype equipment for the first 8 PAC was modified and shipped to [REDACTED]
4. Two partial shipments of electronic equipment for the 8 PAC were sent to [REDACTED]

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GROUP 1
Excluded from automatic
downgrading and
declassification

- 5. Two K.S.R.'s were modified with the "Broom" modifications and shipped on 5 October.
- 6. Five Ampex 350 Tape Recorders were modified for 60 Hz operation.

CRYSTAL UNIT

Totals	Requisitions	Crystals
New Orders	38	3080
Orders Completed	24	861
Partials Completed	11	670
Backlog	24	3392
Due Out	14	1811

ENGINEERING UNIT

Equipment Standardization -

- 1. The Century 444 Oscillograph and the Kay 30-0 Variable Attenuator were recommended for the OC Standards List.
- 2. The Category I of the Stock Status Report was reviewed and recommendations submitted.

Test Procedures -

- 1. Test Procedures for the Frederick 1200 Demodulator and the Northern 174 Model 2 Converter were forwarded for comments.
- 25X1A9a 2. [REDACTED] visited [REDACTED] to check the Test Procedure for the SBE-2A. He was informed that the power output specification has been reduced to 250 MW P.E.P. 25X1A5a1
- 25X1A5a1 [REDACTED] also agreed to change the tuning procedure in the new manual. The M.F. Meter Position will be used in place of the Audio Channel Meter Position. This is a more accurate method of tuning. 25X1A5a1 [REDACTED] was contacted, and he agreed to this change.

- 3. A preliminary RS/A-506 Test Procedure was completed.

25X1A6a [REDACTED]

25X1A9a 1. [REDACTED] processed one hundred eighty-five receiving vouchers and twenty-seven cargo vouchers.

25X1A5a1 2. [REDACTED] was visited to inspect two H-114 Tape Recorders. Three trips were required before both units were accepted.

25X1A5a1 3. [REDACTED] was visited with [REDACTED] Two PT-450 Microwave Systems were visually inspected and accepted.

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CALIBRATION UNIT

Thirty-five pieces of test equipment were processed and returned to service.

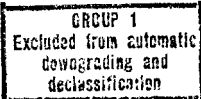
MECHANICAL UNIT

- 1. The new vacuum plating system for the crystal lab was completed. Initial tests indicate that the system is performing well.
- 2. All Mechanical support was routine and current.

POWER UNIT

25X1A9a 1. [REDACTED] is on loan to the Engineering Services Branch.

25X1A9a 2. [REDACTED] arrived and is being familiarized with F.T.S. procedures.



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Next 2 Page(s) In Document Exempt

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