MONTHLY REPORT

TECHNICAL SERVICES BRANCH

ENGINEERING STAFF

1 December - 31 December 1964

25X9A2

[redacted] stations to be installed in the [redacted] during the first week in December, and were forwarded to the packing section.

2. One hundred and eleven of the one hundred and seventeen rejected RR-390/URR Receivers were repaired by FTS, and the remaining six were accepted in C-3 condition.

3. After many delays the State Department has finally installed their keylines to their equipment, and the back-up Microwave System between Langley and State Department has been tested and is now ready for operational use.

4. Two technicians have departed for PCS assignments. Nine technicians were on domestic TDY, and three technicians returned from extended TDY's in [redacted] the latter part of the month. Eight of our technicians were in the CREI Electronics Course at LTS, nineteen were in various stages of training [redacted], and five technicians are in KG-13 training at Lackland Air Force Base, Texas.

25X1A

25X1A6a

25X1A9a

[redacted]

Chief, Technical Services Branch, OC-E

9 December 1964

MEMORANDUM FOR THE RECORD

25X1A9a

FROM : [redacted]

SUBJECT : Trip Report - [redacted] SSB MUX Installation 25X1A6b
25X1A6a [redacted] - New [redacted] Receiver Station 25X1A6b

25X1A6b 1. During 19 October through 4 November 1964 the undersigned supervised and assisted the [redacted] technical staff in the installation of the [redacted] 25X1A6b
25X1A6b end of the [redacted] SSB MUX System.

2. Most of the major items for the project had been received prior to arrival of the undersigned. The [redacted] engineering staff had already started 25X1A6b work on the installation by making racks available, installing the R-390/A receivers and SBS adapters at the receiver station and placing the two 204 C-1 linear amplifiers and associated exciter rack in position in the west wing of the transmitter building. The new G.E. power panel for the west wing was mounted but not wired due to unavailability of proper size wire. The wire was on order with a local vendor with promise of delivery in five days.

3. At the receiver site, the technical staff between the 20th and the 30th of October accomplished the installation and wiring of the Northern Keyers and converters in a new rack, ran new control cables between the Northern equipment, main frame and patch panels, fabricated a 36 position D.C. panel to control the input and output loop currents of the Northern Keyers/converters, fabricated and wired new patch panels for exclusive use on this system at the radio control position, installed new power wiring to all racks and ducting to accommodate both the new control and power wiring. All tone Keyers and converters were bench-checked for frequency accuracy, adjusted and tested back-to-back prior to final installation and use on the system. The sub-carrier assigned to carry the Keyer tones over the microwave was accurately aligned and tested for uniform bandwidth response (0-3DB) over 1,000 to 3,000 cps., low noise, distortion and cross talk.

4. At the transmitter site during the same interval, the two 204 C-1 linear amplifiers and associated rack containing the SBE exciters were installed, new power cables runs made between the equipment and the new G.E. power panel, new control cable linking the SSB equipment with the microwave, main frame and patch panels installed and new ducting runs made to accommodate the new power and control cables. Also, the two baluns for use on rhombics 10/11 were installed on the H-frame supporting the feed lines of these antennas together, with runs of new RG-17/U coax cable.

5. The transmitter end of the system was completed on 27 October. Initial testing of the 204 C-1 amplifiers and exciters, under two tone conditions, was started immediately. All necessary adjustments, measurements, and calibrations were made at this time taking advantage and opportunity to brief and train the transmitter personnel.

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