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(When Filled In)

| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) OC-E | BUDGET EST. FY _____ AMOUNT _____ | REPORTING PERIOD 1 - 31 January 1963 | |
| ACTION | | | |
| <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5020 | PRIORITY CLASS I | PRIM RESPONSIBILITY WES | PROJECT ENGINEER <div style="background-color: black; width: 100px; height: 15px;"></div> |
| PROJECT TITLE Modification Work Orders | | | 25X1A9a |
| PROJECT REQUIREMENT To notify all field stations of standard modifications to equipment | | | |
| PROJECT DESCRIPTION Reproduce necessary copies, assemble and prepare cover letters for all Modification Work Orders. Obtain approval and coordination. Determine category of distribution and forward to appropriate areas. | | | |
| APPROVAL DATE | APPROVED BY /HWK/ /FGI/ | STARTING DATE 8 February '55 | COMPLETION DATE |
| REMARKS Modification Work Order No. 55 - Low Level Keyer for Multiple TD Cabinet. This Modification Work Order covers the installation of Versitron low level keyers in teletype tape relay transmitting cabinets. This particular keyer has been radiation tested in a transmitting cabinet and was found to be satisfactory in all respects. Modification Work Order No. 56 - CSR-2 Modifications This particular modification provides instruction for the modification of CSR-2, Character Sequence Recognizers to provide increased stability and reliability with respect to baud rate and speed variations and distortion acceptance. The M.W.O. was forwarded to Printing Services for reproduction on 6 February. | | | |

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MONTHLY PROJECT REPORT

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| ORIGINATOR OC-E | BUDGET EST. AMOUNT | REPORTING PERIOD 1 - 31 January 1963 |
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| PROJECT NUMBER E-5037 | ACTION <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED | PRIORITY CLASS II | PRIM. RESPONSIBILITY WES |
|---------------------------------|--|-----------------------------|------------------------------------|

25X1A9a

Technical Bulletins

To keep the field supplied with current technical information pertinent to general operation.

. Scan technical literature to determine and select items for field distribution, determine distribution category, reproduce required number of copies, prepare cover letter, arrange approval and coordination, and forward to appropriate areas.

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| APPROVAL DATE | APPROVED BY /HWK/ /FGI/ | STARTING DATE 2 February '56 |
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Technical Bulletin No. 42 provides instruction covering the various methods of installing the CSR-2, Character Sequence Recognizer. It was dispatched to the field on 31 January 1963.

~~SECRET~~
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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) <p style="text-align: center;">OC-E</p> | BUDGET EST. FY _____ AMOUNT _____ | REPORTING PERIOD <p style="text-align: center;">1 - 31 January 1963</p> |
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|--|---|---|---|--|
| PROJECT NUMBER <p style="text-align: center;">E-5085</p> | PRIORITY CLASS <p style="text-align: center;">I</p> | ACTION COMPLETED _____ CANCELLED _____ SUSPENDED _____ | PRIM. RESPONSIBILITY <p style="text-align: center;">PBS</p> | PROJECT ENGINEER <div style="background-color: black; width: 100px; height: 15px; display: inline-block;"></div> 25X1A9a |
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PROJECT TITLE

Communications Systems Planning for New Headquarters Building

PROJECT REQUIREMENT
 To determine the types of Communications systems, and the quantities of equipment that will be required for installation in the new Headquarters Building to meet Agency communications requirements.

PROJECT DESCRIPTION
 To investigate and compile information on new communications systems and equipment. To meet regularly with representatives of the Message Center Staff, Operations, Engineering, and Security Division, and the OC member of the New Building Planning Staff to discuss communications requirements for the new building. To prepare a list of the equipment that will be required and suggested floor plans and equipment layouts defining spare requirements.

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|---|---|---|--------------------------|
| APPROVAL DATE <p style="text-align: center;">January 1957</p> | APPROVED BY <p style="text-align: center;">WAB s/ _____ JJK s/ _____</p> | STARTING DATE <p style="text-align: center;">January 1957</p> | COMPLETION DATE _____ |
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REMARKS

Microwave installation is proceeding slightly behind schedule because of snow and cold weather. The reflectors and antenna system were installed at the [REDACTED] 25X1A6d 25X1A6b

The new tower was erected and finished at [REDACTED] The equipment has been installed at all stations but not powered. Specifications for 50 KC KY-5 carrier channel were approved for [REDACTED] with delivery sometime in March.

25X1A5a1

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-E | BUDGET EST. FY: _____ AMOUNT: _____ | | REPORTING PERIOD 1 - 31 January 1963 | |
| ACTION | | | | |
| FUTURE | ACTIVE | COMPLETED | CANCELLED | SUSPENDED |
| PROJECT NUMBER E-5151 | PRIORITY CLASS | PRIM. RESPONSIBILITY | PROJECT ENGINEER <div style="background-color: black; width: 100px; height: 15px;"></div> | |
| PROJECT TITLE Reviewal of Transmitter Field | | | | 25X1A9a |
| PROJECT REQUIREMENT Investigate specifications, cost and availability of transmitters and RF linear amplifiers in the 100 watt, 5000 watt and 20000 watt range having definite suitability for OC uses. | | | | |
| PROJECT DESCRIPTION Investigate commercial and military equipment resources with a view toward selection of transmitters and/or linear amplifiers which will meet OC requirements at a reasonable cost. Prepare a report listing the relative merits and shortcomings of each as found by a comparison of manufacturers specifications and/or Agency tests. | | | | |
| APPROVAL DATE July 1959 | APPROVED BY /s/ GBG _____ /s/ JFS _____ | | STARTING DATE | COMPLETION DATE |
| REMARKS 25X1A5a1 1. The <div style="background-color: black; width: 100px; height: 15px;"></div> the 1000 watt linear amplifier that was returned to the plant for repair was inspected by the chief of T and I at the <div style="background-color: black; width: 100px; height: 15px;"></div> plant. His report on the repair made, which was actually a re-design. around the problem, was favorable; and the amplifier will be delivered back to us about the middle of the next reporting period. 25X1A5a1 2. After a few false starts and follow-up amendments, a requisition 25X1A5a1 is being processed by OL-PD for 6 each <div style="background-color: black; width: 100px; height: 15px;"></div> amplifiers. It is planned to ship these to the various Field Headquarters for in-the-field operational evaluation. The Field Headquarters concerned have already been notified of this action and have received an evaluation form for completion. 3. The procurement action for the <div style="background-color: black; width: 100px; height: 15px;"></div> linear amplifier is 25X1A5a1 being held while the cognizant procurement officer is attending a school. 4. The contractor for the transit cases came in with an overrun of about \$1400. Approval was given for the changes that caused the overrun, so appropriate funding action was taken. This sub-project is now completed. | | | | |

MONTHLY PROJECT REPORT

PROJECT NUMBER

E-5151

PRIN. RESPN.

REPORTING PERIOD

1 - 31 January 1963

5. Another sub-project under this project number is beginning to claim sufficient time to be worthy of reporting. This is to find a suitable exciter-modulator capable of being remotely controlled for use with the 208U-10 or any other linear amplifier. A review of the available equipment was made, and specifications were drafted for a system to fulfill the requirement.

25X1A

Approved For Release 2000/08/27 : CIA-RDP78-02820A000900010011-9

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| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) C-E | | BUDGET EST. FY AMOUNT | |
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| ACTION | | | |
| FUTURE | ACTIVE | COMPLETED | CANCELLED |
| SUSPENDED | | | |
| PROJECT NUMBER E-5213 | PRIORITY CLASS II | PRIM. RESPONSIBILITY JES | PROJECT ENGINEER [REDACTED] |
| PROJECT TITLE TRANSISTORIZED MULTICOUPLER | | | 25X1A9a |
| PROJECT REQUIREMENT Provide information on various transistorized receiving multicouplers, suggesting the best as STANDARD in all base and field stations. | | | |
| PROJECT DESCRIPTION Investigate all transistorized receiving multicouplers now available either commercially or through the military, or will be developed in the near future by commercial firms or military R+D projects to find a multicoupler with equal or better specifications than a tube-type for the Office of Communications. Initiate an Analysis and Appraisal of promising equipment and report these findings for possible STANDARDIZATION of one by OC. | | | |
| APPROVAL DATE | APPROVED BY /FGL/ /HMK/ <i>[Signature]</i> | STARTING DATE August 1961 | COMPLETION DATE |
| REMARKS 1. The reports on both the TRAK and HRB-Singer transistorized multicouplers were received and compared. It was noted that the TRAK unit was superior in all respects. Since the report did state that the TRAK unit had deficiencies when operating below 5 degrees Centigrade, and a question of how high an RF voltage the coupler could withstand before damage was raised, both these questions were proposed to the manufacturer. A re-design of the power supply took care of the malfunction mentioned in the report (now able to operate down to minus 5°C.) and 50 volts of RF was applied to the input terminals without damage. 2. A second advantage of the TRAK unit arose when it was offered for sale at a price of \$900. per unit over the originally quoted price of \$2500. with an additional price reduction in quantity purchase. Two multicouplers were requisitioned for shipment to station [REDACTED] for operational evaluation. 25X1A6b 25X1A6b 3. [REDACTED] was queried for the possible continued requirement they had for a line/antenna amplifier-coupler. This is the unit that is installed at the down-lead of a receiving antenna to amplify the signals received to overcome 25X1A6b losses before entering long co-axial transmission lines. [REDACTED] was offered two units, TRAK and HRB-Singer built for their use and evaluation. | | | |

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-E | | BUDGET EST. FY AMOUNT | | REPORTING PERIOD 1 - 31 January 1963 |
| ACTION | | | | |
| FUTURE | ACTIVE | COMPLETED | CANCELLED | SUSPENDED |
| PROJECT NUMBER E-5215 | PRIORITY CLASS | PRIM. RESPONSIBILITY PMS | PROJECT ENGINEER [REDACTED] | |
| PROJECT TITLE REVIEW OF MOBILE AND BASE SURVEILLANCE EQUIPMENT | | | | 25X1A9a |
| PROJECT REQUIREMENT Present standard mobile and base equipment as related to two-way surveillance use required review as it is purchased and stocked in a different configuration than what the manufacturer offers. Also, transistorized and recent equipment should enter this review and a stock level should be set. | | | | |
| PROJECT DESCRIPTION Investigate available commercial mobile and base station equipment with the object of selecting the best to meet OC two-way surveillance requirements at a reasonable cost. Prepare a comparison chart listing the merits and shortcomings of each based on the manufacturers specifications or evaluations, if required. Submit results to OC-T for review and coordination. | | | | |
| APPROVAL DATE | APPROVED BY /FGI/ /HW/ <i>[Signature]</i> | STARTING DATE January 1962 | COMPLETION DATE | |
| REMARKS 25X1A5a1 1. The [REDACTED] miniature transmitter and receiver, one set on the low band, one on the high, were received. A pair of the most qualified engineers gave them an initial "idiot" test in a restricted area and communicated with success. For a practical/operational test the sets were forwarded to OC-OS. Based on the latter test, if favorable, it is planned to budget for and purchase an initial limited stock of these sets. 25X1A5a1 2. The review of the [REDACTED] run of surveillance equipment had to be placed, unfortunately, in suspense before it was complete due to higher priority work. | | | | |

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| | | FY | AMOUNT | 1 - 31 January 1963 | |
| ACTION | | | | | |
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| PROJECT NUMBER | | PRIORITY CLASS | | PROJECT ENGINEER | |
| E-5216 | | | | AES | |
| PROJECT TITLE | | | | | |
| Antennas and Associated Equipment | | | | | |

25X1A9a

PROJECT REQUIREMENT

For a better coordinated technical approach to the fulfillment of antennas and related equipment requirements, all previous and future antenna planning will be assigned this project number.

PROJECT DESCRIPTION

To assist the base and field stations in the design of new and renovation of present antenna systems.

To advise the base and field station on the latest developments in antennas, and transmitter to antenna matching devices.

To establish the antennas, associated equipment and related hardware that will be standard stock items.

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|---------------|--|---------------|-----------------|
| APPROVAL DATE | APPROVED BY | STARTING DATE | COMPLETION DATE |
| | /FGI/ <i>[Signature]</i> /HWK/ <i>[Signature]</i> | March 1962 | |

REMARKS

1. Except for a few clean up details, the new antenna installation at [redacted] is complete. The feed system on both of the horizontal Log Periodic Antennas had to be modified in order that the antennas would conform to the manufacturer's specifications. Impedance measurements were made on the new antennas and all now conform to design or manufacturer's specifications.

2. Due to the delay of [redacted] to submit qualified specifications for the redesign of the AN-47, and recent technical discussions with [redacted], it has been established that [redacted] can manufacturer the antenna couplers according to the new specifications.

3. A coaxial patching system has been ordered for [redacted]. The system will include VSWR sensing elements which will be permanently installed in the coaxial cable. This will allow all lines to be monitored without interruption of the circuit.

4. Granger type conical monopoles antennas have been requisitioned for [redacted]. These antennas include non-corrosive type of material, i.e. calsum bronze radiators, aluminum towers, stainless steel fittings and nylon rope guys.

25X1A6b

25X1A5a

25X1A5

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25X1A6b

25X1A6b

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) | BUDGET EST | | REPORTING PERIOD | |
| OC-AFD | FY | AMOUNT | 1 - 31 January 1963 | |
| ACTION | | | | |
| FUTURE | ACTIVE | COMPLETED | CANCELLED | SUSPENDED |
| PROJECT NUMBER | PRIORITY CLASS | PRIM. RESPONSIBILITY | PROJECT ENGINEER | |
| E-5217 | I | AES | | |
| PROJECT TITLE | | | | |
| Rejuvenate | | | 25X1A9a | |
| PROJECT REQUIREMENT | | | | |
| Design new receiver site buildings, | | | 25X1A6b | |
| PROJECT DESCRIPTION | | | | |
| <p>Design and layout of a new "interim" receiver building should accommodate:</p> <p>1) A tape relay room for 18 circuits (including eight on-line), 2) Signal center area for 10 HW-26's, 3 Tot's, 2 HW-19A's, 3) Five CW positions, 4) On site maintenance, and 5) Office space for a chief, OPS officer, engineer, security and secretarial force. A second building will be required for adequate "area" warehousing, plus emergency power facilities. Note that maximum single-site purchase is legally limited to 5 acres, which effects antenna planning. Full details are carried in AFD M-62-055, dated 25 June 1962.</p> <p style="text-align: center;">25X1A9a</p> | | | | |
| APPROVAL DATE | APPROVED BY | STARTING DATE | COMPLETION DATE | |
| July 1962 | /HWK/ /FGI/ | July 1962 | | |
| REMARKS | | | | |
| <p style="text-align: center;">25X1A6b</p> <p>1. [redacted] concurred with Headquarters originated plans for reduced-size receiver building, but urged addition of warehouse area and central conditioning. AFD cabled agreement and requested estimate and drawings be obtained locally for final approval soonest. RE&CD will monitor and assist, and probably provide construction supervision.</p> <p>2. Work was begun on design of a receiving antenna farm, possibly to include two diversity rhombic pairs for [redacted] two conical monopoles, a rotatable LP, and a fixed horizontal LP to a group of targets bearing generally northwest. A slight expansion of the T-site antenna farm (contingent upon funds) is envisioned to the extent of two monopoles and a rotatable LP.</p> <p style="text-align: right;">25X1A6a</p> | | | | |