

S E C R E T

MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 October - 31 October 1958	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5010	PRIORITY CLASS I	PRIM. RSPN. EES	
PROJECT TITLE Receiving Antenna Multicoupler			
PROJECT REQUIREMENT To provide for OC requirements the best possible receiving antenna multicoupler.			
PROJECT DESCRIPTION To monitor the commercial and military developments in the field to determine if any of these multicouplers provided sufficient improvement to warrant replacing those now used in OC requirements.			
APPROVAL DATE 1 March 1956	APPROVED WAB /s/ JJK /s/	STARTING DATE 1 June 1956	COMPLETION DATE

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It was learned that the Rome Air Development Center was to make evaluation tests on the CGS Model CU-483 Multicoupler. The project engineer made a trip to RADC to discuss these tests with the RADC engineers.

RADC had not yet received the user-test models of the CGS Multicoupler and therefore had made no tests. They expect to receive the unit to be tested within the next month or two. It was agreed that copies of their test results would be forwarded to the Agency when completed.

The general feeling among the RADC engineers was that the CGS was an excellent piece of equipment, but that its cost (\$2500) was somewhat out of line.

It was learned that the Westinghouse Corporation is making a multicoupler which compares very favorably, on paper, with the CGS unit and the price is approximately one-half the price of the CGS unit. RADC is going to evaluate this Westinghouse unit and forward the reports to this Agency. Meanwhile, Westinghouse will be contacted in an attempt to obtain one of their multicouplers for examination.

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PROJECT NUMBER E-5020	PRIORITY CLASS I	PRIM. RSPN. FES	PROJECT ENGINEER <div style="border: 1px solid black; width: 100px; height: 20px;"></div>
PROJECT TITLE Modification Work Orders			
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 <u>AJW /s/</u> <u>JJK /s/</u>	STARTING DATE 8 February 1955	COMPLETION DATE
<p>Modification Work Order No. 26 (dated 16 October 1958) was issued during this reporting period. Procurement memorandums were sent to MIB ordering the kits for this MWO into the field. The modification is performed on the Collins 231-D and 16-F transmitters to give greater safety to persons working on this equipment by the installations of warning lights, shorting switches, and terminal strip covers.</p>			

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PROJECT NUMBER E-5037	PRIORITY CLASS II	PRIM. RSPN. FES	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Technical Bulletins			
PROJECT REQUIREMENT To keep the field supplied with current technical information pertinent to general operation.			
PROJECT DESCRIPTION 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.			
APPROVAL DATE	APPROVED AJW /s/ JJK /s/	STARTING DATE 2 February 1956	COMPLETION DATE
<p>Technical Bulletin No. 22 - "Methods and Materials for Checking Motorola VFC PA-7705 Transmitter and PA-7706 Receiver Tuned Circuits." The covering dispatch for this bulletin is now being coordinated. This bulletin should be issued sometime next month.</p> <p>Technical Bulletin No. 25 - "Performance and Design of the Sloping Vee Antenna" has been completed and is being routed to the various coordinating divisions before being issued.</p>			

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PROJECT NUMBER E-5058	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED] 25X1
PROJECT TITLE Standardizing of Morse Code Perforators			
PROJECT REQUIREMENT Select a commercially available perforator which best suits the requirements of Agency installations.			
PROJECT DESCRIPTION Canvass the market and evaluate Morse Perforators to determine which is the most reliable, easiest to maintain, cheapest to maintain, etc. Recommend this model for standardization.			
APPROVAL DATE July 1958	APPROV [REDACTED]	STARTING DATE July 1958	COMPLETION DATE [REDACTED] 25X1
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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-P	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 31 October	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5060	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Strategic Reserve Program			
PROJECT REQUIREMENT To provide readily available transportable type package radio stations at convenient locations throughout the world for immediate installation and operational use in the event of an emergency.			
PROJECT DESCRIPTION To provide bills of materials for [REDACTED] trans- portable type package radio stations with suggested floor plan layouts and standard wiring diagrams to provide efficient equipment utilization.			
APPROVAL DATE September 1953	APPROVED WAB /s/ JJK /s/	STARTING DATE September 1953	COMPLETION DATE
The OC-P staff study was received during this reporting period. After preliminary discussions within OC-E, the study was discussed with OC-P personnel. Subsequently, a memorandum outlining the OC-E understandings and comments as follows was forwarded to OC-P.			
[REDACTED]			
<p>4. All installation, spares, and accessory items be packaged and stocked as a single line item for each type of package station.</p> <p>5. It was recommended that the responsibility for submission of the annual replacement program be transferred to the Engineering Staff.</p>			
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PROJECT NUMBER E-5060	PRIM. RSPN. <input type="text"/>	REPORTING PERIOD 1 - 31 October
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6. An orderly program for the replacement of obsolete equipment within the Strategic Reserve Program is to be initiated and will require a policy decision on "forced issue" of equipment which is no longer the newest or possibly the best model available. This policy decision should be publicized throughout Communications, and decisions as to specific equipment to which the policy will be applied should be made by the Equipment Board.

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PROJECT NUMBER E-5085	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER <div style="border: 1px solid black; width: 100px; height: 20px;"></div> 25X1
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 Divisions, 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.			
APPROVAL DATE January 1957	APPROVED <u>WAB /s/</u> <u>JJK /s/</u>	STARTING DATE January 1957	COMPLETION DATE
During this month drawings were made and submitted to the New Building and Planning Staff showing the location and base details for the antennas to be placed on the roof of the new building at Langley, Virginia.			

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PROJECT NUMBER E-5103	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER 25X1
PROJECT TITLE Multiplex System for Base Station to Sub-Base Stations Communications			
PROJECT REQUIREMENT To provide a system of communications for base to sub-base operation to meet expanding communication commitments without extensive plant expansion.			
PROJECT DESCRIPTION Investigate and compile a report on the practicability of utilizing multiplex equipment on staff circuits, formulate systems where utilization is practical and make comparison costs with systems currently in use where expansion is contemplated or in areas where expanding communication commitments to staff circuits could justify multiplex communications.			
APPROVAL DATE May 1957	APPROVER [Redacted]	STARTING DATE May 1957	COMPLETION DATE

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PROJECT NUMBER

E-5103

PRIM. RSPN.

REPORTING PERIOD

1 October - 31 October 1958

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At the conclusion of this testing a final project report will be submitted.

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ORIGINATOR(S) OC-E	BUDGET EST. FY 58 AMOUNT \$10,000	REPORTING PERIOD 1 October - 31 October 1958	
<input type="checkbox"/> FUTURE	<input type="checkbox"/> ACTIVE	<input checked="" type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5106	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Mechanical Transmitter Interlock Switches			
PROJECT REQUIREMENT To increase the safety features of the 16-F and 231-D type transmitters by providing a mechanically actuated switch that will ground the high voltage when the doors of these transmitters are opened.			
PROJECT DESCRIPTION Determine the type and quantity of switches for each type of transmitter. Have an outside consulting firm investigate the circuitry and construction of the 16-F and 231-D type transmitters for the best possible arrangement of wiring and placement of the switches. This firm will also purchase the switches and other hardware to make an amount of kits, complete with installations instructions. Secure authorization to make installation of these switches mandatory.			
APPROVAL DATE August 1957	APPROVED AJW /s/ JKK /s/	STARTING DATE August 1957	COMPLETION DATE October 1958
The Avion Company delivered the final 29 modification kits on 8 October. All necessary information has been turned over to FES for shipment of these units to the field. As of this reporting period this project is completed.			

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PROJECT NUMBER E-5120	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER <div style="border: 1px solid black; width: 100px; height: 20px;"></div>
PROJECT TITLE Review of Present Converter Field			
PROJECT REQUIREMENT Review what is currently on the market to determine if there is an economically suitable replacement for the Northern 107 Model 2 Frequency Shift Converter.			
PROJECT DESCRIPTION Prepare a comparison chart of all Frequency Shift Converters currently being produced, such as the Hoffman CV-60, TMC CFA, Collins 706A-2, Northern 107 and 174, etc., to determine which is the most suitable unit to meet our requirements.			
APPROVAL DATE January 1958	APPROVE <div style="border: 1px solid black; width: 100px; height: 20px;"></div>	STARTING DATE February 1958	COMPLETION DATE
<p>Work was started on this project, but progress has been slow due to the fact that delivery of the Model XFK Frequency Shift Keyers (which are used signal generators in the comparison evaluation tests) from the manufacturer was delayed.</p> <p>All equipment required for this project will be delivered in the very near future and the project should progress at a normal rate.</p>			

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PROJECT NUMBER E-5122	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER
PROJECT TITLE Evaluation of Diversity Reception Systems			
PROJECT REQUIREMENT To determine the advantages or disadvantages of space/frequency diversity reception systems for possible Agency application.			
PROJECT DESCRIPTION A study will be made of available commercial and military diversity reception systems. A report will be prepared listing the capabilities of each system compared to conventional receiving systems. The following points will be considered. <ol style="list-style-type: none"> 1. Economy 2. Flexibility 3. Ease of operation and maintenance 4. Antenna space requirement 5. Agency requirement 			
APPROVAL DATE April 1958	APPROVED	STARTING DATE April 1958	COMPLETION DATE
<p>The Technical Material Corporation's DDR-2A Dual Diversity Receiver to be used in this study has been delivered to the T&I Section for installation of a ventilation kit and operational checks of the components.</p> <p>This project study should begin by 1 November 1958.</p>			

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ORIGINATOR(S) OC-O+T	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 31 October	
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PROJECT NUMBER E-5123	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED] 25X1
PROJECT TITLE Antenna Systems for [REDACTED] Communications Nets.			
PROJECT REQUIREMENT To provide an antenna system, with the receiving antenna(s) being capable of joint use by other offices, for communications nets installed in [REDACTED] buildings. The antenna installation should perform efficiently and yet not detract from the esthetic appearance of the building.			
PROJECT DESCRIPTION To investigate and test various types of multicouplers, vertical antennas with associated tuning networks, both remotely operated and passive, and to determine the type multicoupler and antennas best suited to meet the applicable requirements.			
APPROVAL DATE April 1958	APPROV [REDACTED]	STARTING DATE April 1958	COMPLETION DATE [REDACTED] 25X1

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PROJECT NUMBER E-5125	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Transmitter/Antenna Switching and Matching Systems			
PROJECT REQUIREMENT To investigate methods for the efficient transfer of R.F. energy from transmitters to antennas.			
PROJECT DESCRIPTION This study is to investigate the various methods of transmitter to antenna switching, associated patch panels, coaxial patch cords and connectors, dummy loads, standing wave ratio indicating devices, transmission lines, and matching methods and devices. The aim of this study is to provide a centralized fund of information on all phases of the transfer of R.F. energy from transmitter to antenna in order to facilitate engineering design.			
APPROVAL DATE April 1958	APPROVED [REDACTED]	STARTING DATE April 1958	COMPLETION DATE
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ORIGINATOR(S) OC-O&T 58-766	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 October - 31 October 1958	
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PROJECT NUMBER E-5135	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER <div style="border: 1px solid black; width: 100px; height: 20px;"></div>
PROJECT TITLE <p style="text-align: center;">Modernization of CP-4 Control Panel</p>			
PROJECT REQUIREMENT <p style="text-align: center;">Redesign the CP-4 Control Panel and fabricate 100 units.</p>			
PROJECT DESCRIPTION <p style="text-align: center;">Redesign the CP-4 control panel as a more efficient unit and rebuild from the start, using miniaturization techniques wherever possible and practical, incorporating features in the equipment from experience gained from previous models of the control panel.</p>			
APPROVAL DATE July 1958	APPROVED <div style="border: 1px solid black; width: 100px; height: 40px; margin: 5px;"></div>	STARTING DATE July 1958	COMPLETION DATE

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PROJECT NUMBER E-5137	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Coaxial Output Network for the 231-D Transmitter			
PROJECT REQUIREMENT A coaxial output network, independent of the existing unbalanced output is required for the 231-D Transmitter.			
PROJECT DESCRIPTION The output circuit of the 231-D Transmitter will be investigated and a suitable network, with provisions for metering, will be designed and fabricated to accommodate coaxial fittings. The existing outputs (i.e., unbalanced and balanced 600 ohm line feed) of this transmitter will not be affected. A modification kit with instructions will be drawn up.			
APPROVAL DATE July 1958	APPROVED [REDACTED]	STARTING DATE July 1958	COMPLETION DATE
<p>A new approach is being made to this project in view of a more desirable solution from the standpoint of ease of installation and logistic support.</p> <p>The solution seems at this time to be a single pole-double throw vacuum sealed radio frequency relay mounted external to the shell of the transmitter with provisions for deactivation of the transmitter plate voltage while switching from coaxial to unbalanced output.</p> <p>The commercial market is being surveyed to determine the best relay available for this application.</p>			

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ORIGINATOR(S) CSD 8-517	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 October - 31 October 1958	
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PROJECT NUMBER E-5138	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [Redacted] .1
PROJECT TITLE Teletype Clear Text Alarm			
PROJECT REQUIREMENT A device is required which will detect the clear text word "CITE" when transmitted to a signal line. Upon detecting this word the device will provide a disabling circuit for the transmitter-distributor and an audible and/or visual alarm shall be given.			
PROJECT DESCRIPTION All signal lines are monitored by model-14 reperforators. Contact assemblies are available that are operated by the pull bars on the M-14. These contacts can be added so that they are operated by the space, C, I, T, and E pull bars. These contacts can be used to control the Clear Text Alarm device. The Clear Text Alarm device will be either relay or diode operated and contain its own power supply.			
APPROVAL DATE August 1958	APPROVE [Redacted]	STARTING DATE August 1958	COMPLETION DATE

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ORIGINATOR(S) SPD/EA	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 October - 31 October 1958	
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PROJECT NUMBER E-5144	PRIORITY CLASS I	PRIM. RSPN. EES	PROJECT ENGINEER [Redacted] 25X1
PROJECT TITLE Receiving Antenna Patch Panel			
PROJECT REQUIREMENT To provide SPD with an antenna patch panel.			
PROJECT DESCRIPTION Design and construct a VHF/UHF receiving antenna patch panel for [Redacted] 25X1			
APPROVAL DATE October 1958	APPROVED [Redacted]	STARTING DATE October 1958	COMPLETION DATE
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PROJECT NUMBER E-5412	PRIORITY CLASS I	PRIM. RSPN. SDS	PROJECT ENGINEER [REDACTED]
PROJECT TITLE One Man Radio Station			
PROJECT REQUIREMENT Design a complete one man radio station to be used as a standard for the planning of all new one man stations or when renovating existing stations.			
PROJECT DESCRIPTION This project was originally started in September 1956 to prepare a bill of materials and associated drawings to cover the installation of a one man radio station [REDACTED]. It has been expanded to cover the installation and renovation of all one man stations. Using the one man station design as a guide, a complete bill of materials, associated drawings and installation specifications will be prepared according to the requirements of each particular station.			
APPROVAL DATE September 1956	APPROVED AJW /s/ JJK /s/	STARTING DATE September 1956	COMPLETION DATE
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