

ROUTING AND RECORD SHEET

INSTRUCTIONS: Officer designations should be used in the "TO" column. Under each comment a line should be drawn across sheet and each comment numbered to correspond with the number in the "TO" column. Each officer should initial (check mark insufficient) before further routing. This Routing and Record Sheet should be returned to Registry.

FROM: R&D-EP *PSC-234UNV* TELEPHONE NO. DATE 26 August 1955

TO	ROOM NO.	DATE		OFFICER'S INITIALS	TELEPHONE	COMMENTS
		REC'D	FWD'D			
1. R&D			9-20	[Initials]		Approval
2.						
3.						
4. OCE-1				[Initials]		
5. OC-E			9/22	[Initials]		Information
6. OC-SP/EA		10/31	11/1	[Initials]		"
7.						
8.						
9.						
10. R&D-EP				[Initials]		
11.						
12.						
13.						
14.						
15.						

PSC-234-UNV

For filing. *MIRIFON*
1-10 Has SPD been informed?
If not please so do.
[Signature]
Yes. Paj

155-1812

Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files

DATE: 26 August 1955

FROM :

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SUBJECT: Inspection Report - Modified Minifon -
Visit of 22 August 1955

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1. Government furnished equipment: The inspection revealed that only 14 Minifons had been furnished to the contractor. One Minifon has not been received by the contractor.

2. Minifon Variations: Of the 14 Minifons received more than four different models were included. These variations occur as a result of different components and different component values being utilized at the time of production. In addition, several distinctively different circuit wiring arrangements have been encountered. For the purpose of this contract, is making an effort to arrange it so that all of the units will be modified in accordance with a single master wiring diagram. It will not be possible for to insure that each Minifon has identical physical size components.

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3. Examination of the Minifon units revealed that new tubes have been employed. Thus the units furnished require two (2) each tube-type DF-651 and one (1) each DL-651. It has been established that these tubes have a rectangular envelope with a maximum thickness of .210" and were manufactured in Belgium. It has been further established that these tubes are no longer manufactured nor will they be manufactured for future replacement purposes. These tubes are electrically replaceable in the Minifon units by the standard DF-67 and DL-67 types. However, these types have a circular envelope with a mean dimension of .322" diameter. This increase in diameter requires greater modification consideration as regards to space considerations. The new Minifons further employ a new motor battery. This battery is of American manufacture, and is the Burgess 3XX7 (10 1/2 volt) motor battery. Its size and configuration are more closely comparable to the original Minifon motor battery. It has been determined that by utilizing this battery sufficient voltage is available to permit the governor contacts of the Minifon motor to operate. It is anticipated that this feature will increase the overall accuracy of the Minifon recorder, as opposed to the condition encountered when the Mallory mercury cell motor battery is employed. The writer has not determined the operating capacity of this new battery.

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Inspection Report - Modified Minifon -2-

26 August 1955

4. Availability: With the exception of one component, it is anticipated that the modifications of the Minifon receiver will be accomplished prior to 14 September. Actual delivery will be predicated upon the delivery to the contractor (for each modification) of one each 6 MFD sub-miniature capacitor. All work, except reassembly, can be accomplished pending the arrival of this critical unit. The contractor is attempting to obtain a Telex type headphone output jack, which is of the shorting type. If the contractor is successful in obtaining this item, it will alleviate the necessity for a dummy shorting plug being procured. This action will have distinct operational advantage in that a small shorting plug could easily be lost during normal field operating conditions. The contractor has included a pulse stretcher circuit which will utilize a Hughes HD-6007 Silicon Diode. It has been determined that the IPC MB series cable connectors and receptacles cannot be procured prior to October. It has been necessary, therefore, to authorize the contractor to employ the SM series of connectors. In this connection the contractor has been advised that the IPC MB connectors, as specified in this contract, should be procured but under a services contract and not as an extension of this contract. The service contract will require the inclusion of new antenna crystal mount termination caps. Details of this item will be firmed up at the time the MB series of connectors are available.

5. ELINT Antennas: It was determined that the materials required for the fabrication of the associated ELINT antennas under this contract were on hand, and the fabrication, machining, and plating were underway. However, the processing of all of the mechanical components had not advanced to a point where final fabrication and assembly could be initiated. The antennas will start becoming available about 16 September 1955. More specific scheduling will be available about the first of September.

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