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Office Memorandum . United States Government

ТО	: The Files	DATE: 7 February 1957
FROM	:	
SUBJECT	: Contract RD-122, Task Order	1 - AS-3
	l. General - A visit wa tion during the afternoon of the subject contract. Presen ment were;	Thursday, 31 January 1957, to monitor t for a discussion of the AS-3 develop-
	ruary when cability of on Frida	delay this visit until Monday, 4 Feb- nuld be present, however, the avail- y was even more appreciated and senior this project seems to have been
	in AS-3 packaging. The units stated that the output was no range (3 to 30 mc/s - Single The hardware packaging by	dboard transmitter is being duplicated now have a pi network and it was t less than 27 watts over the tuning band) working into 50 and 300 ohms. Jis excellent but the transmitter denuced to perform specification tests.
	since single band tuning into in tank tuning to a harmonic said it would assist instruction provided the user cussed to include going to the brated "Grid-dip" resonant incantennas, etc. It was suggest with their almost completed modified to be a suggestant tank tuning. The extent of respective loading with less than tank tuning.	-
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4. Coder - The mechanical design of the coder is completed and a brass engineering model was available for inspection. Alnico V slugs have been procured and the tape cartridge design was said to be completed and a model being fabricated in the model shop. The company's third progress report discussed a tape manufacturers test efforts on behalf of for the AS-3 coder. is not paying for such services. The undersigned concurred that such specialized services are desirable but pointed out that such informal working agreements are not always brought to a speedy and successful conclusion. Frequent contact with the tape manufacturer was suggested.

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- 5. Battery Charger The specifications call for a two ampere charging rate. Inasmuch as the required battery capacity could not be determined at the time the specifications were prepared, a two ampered seemed reasonable. However, states that the power requirements can be exceeded with three amperehour cells. A two ampere charging rate for three amperehour cells (full charge in 1 1/2 hours) would be overworking the batteries and a 500 ma charging rate (full charge in 6 hours) was suggested.
- 6. Packaging presented a new packaging idea which the undersigned completely indorsed but stated that approval would have to come from the user. The plan is this: Instead of having an AC supply deliver the various high voltages, that the AC supply high voltage output be 12 volts DC for working into the transistorized battery high voltage supply. From an operational point of view, this would mean that the transistorized high voltage DC supply component would be a necessary item for AC operation, however, since this component will be no larger than a king size pack of cigarettes, the disadvantages of transporting the additional component are off-set by the following:
 - a. The need for a battery charger with a second heavy and multitap transformer is eliminated (the first transformer is in the AC supply). Battery charging would be accomplished with the AC supply which would have a voltage tap of 14-16 volts DC for charging 12 volt batteries.
 - b. Power switching circuitry would be simplified.
 - c. Total weight of equipment would be reduced a minimum of two pounds.
 - d. Total volume of equipment would be reduced a minimum of 25 cubic inches.
 - e. Component interconnection would be simplified for the various modes of operation.

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7. Progress Reports - The undersithe progress reports, and apparent in this area. One solution would be for nical writer, but mostly perhaps, the cibi-monthly progress report should contable presented.	tly some assistance is needed r the company to hire a tech- ompany needs to know what a	
8. now appears to be doing better work than their progress reports indicate and although progress is slow, their thinking is better. We have never indorsed the idea of a mechanical engineer being the project engineer and are pleased that senior engineering representation is now active on the project. The contractor has corrected his work schedule to agree with contractual requirements and re-affirmed that an engineering model of the equipment would be completed by July 1957.		

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