	OPTIONAL FORM NO. 10 Approved From Release 2004/07/28 : CIA-RDP78-02820A001200060025-5 UNITED STATES GOVERNMENT	
	Memorandum	
TO :	EP 66-275	ember 1966
		25X1A5a1
FROM :		25X1A9a
	the Thermostican Bonard No. 0 (NY O), Conservation	25X1A5a1
SOBJECI.	: Inspection Report No. 2 - CV-24 Converter	25X1A5a1
	Raa 1	HE P-2
	1. Project Description:	
	The CV-24 is a dual channel, IF converter capable of cor	iverting
	inputs of 500 kHz, 455 kHz, or 100 kHz to either 10 kHz, 15 k 22 kHz. Separate identical converter channels are provided s	Hz, or
	two receivers may be operated in diversity pairs for reception	on of
	ON/OFF CW signals at 300 WPM. Both headphone and loudspeaker tion are provided. The following technical characteristics a	
	applicable:	
	Input impedance - 50 ohms and high impedance for bridgin (each channel)	ng
	Output impedance - 600 ohms each channel Power requirements - 10 watts, 120 volts ±10%, 50/60 Hz,	
	single phase	
	Dimensions - 19" rack mounting Weight - under 10 lbs.	
	2. Contractual Information:	
K1A	a. Initial Cost:	
	b. Request for Procurement Action: 28 June 1966 c. Initiation Date: 29 June 1966	
	d. Completion Date: 30 December 1966 - Phase I	
	e. Deliverable Items: Phase I - One prototype Phase II - Ten service test models	
	3. Date of Meeting: 19 December 1966	
	4. Place of Meeting:	25X1A5a1
	5. Persons Attending:	
	Agency Non-Agency	
- 25V1/		257145-1
7 25X1/	A9a Mr.	25X1A5a1
- &	GROUP 1 Evening from automatic	
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SUBJECT: Inspection Report No. 2 - CV-24 Converter with

Contractor's Performance:

a. On schedule and expected to remain so: Yes
b. Within obligated funds and expected to remain so: Yes
c. Satisfactory technical progress: Yes

7. Project Status:

The CV-24 prototype was sent to the Laboratory for an A&A during the latter part of November. A preliminary evaluation of the converter resulted in the discovery of several areas of poor workmanship (excess solder, loose screws, components tied together in mid-air, etc.). Since these problems did not directly affect the performance of the converter, the A&A was continued.

However, further evaluation uncovered several areas in which the CV-24 did not meet specifications. Intermodulation distortion was found to be only 20 db down below the level of two equal amplitude in-band signals, although the specifications required the distortion to be at least 40 db down. One channel has too much crosstalk. In addition, excessive 60 cycle hum still prevails in the audio demodulator section; this was brought to the attention of the contractor when the converter was in breadboard stage but evidently was not completely eliminated.

The CV-24 converter was returned to the contractor for rework and is expected to be returned to this Office by 27 December 1966.

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For The PD-2

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