Approved for Release: 2024/06/10 C05025656

I. WHAT HAS NRL PROVIDED FOR THE "FIELD DIGITIZER SYSTEM"?????	I. V	$ exttt{TAHW}$	HAS	NRL	PROVI DED	FOR	THE	"FIELD	DIGITIZER	SYSTEM!	'????
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:	a. New Special purpose solid-state RECEIVERS.
1	points of the leading and traiming edge of each pulse, thus avoiding the associated timing errors.
	c. A sophisticated Analog-to-Digital data conversion with small computer to provide precise description of the data befor it has suffered any recording media. This/demeription of data is packed homogeniously in the most compressed farm digital form on magnetic tape using IBM-729 standard format,@ 800 ppi.
II.	WHAT HAVE THE RESULTS INDICATED????
	a. Data timing accuracy improved so that standard deviations of less than 1 or 2 microseconds is not uncommon.
	b. Data is <u>not</u> now sensitive ovariations in signal amplitude which are severe with a constant level slicer type A-toD converter used in AUDICO in the past.
·	c. The new generation of ^D igital Data has resulted in higher efficinc potential for data processing since man-made Local interference is not digitized and cuts down on the ammount of background noise which is seen in the analog data of the past. Thus more of the data is associated into than was possible with the older format.
	d.Data emanating from/areas (as small as out immediately following the pass.
	recongnition o e.Signals Of Interest (SOI) designated by NSA can be sorted out and/ High Priority signals used to alert other platforms.
] . :	I <u>What is NRL doing to extend this Capability</u> ???? a. a second generation Analog to ^D igital Data System (A/DDS) is being developed and expected completion is set for March with Lecunits by 1 June 1968 if GO-AHEAD is received by 1 November.
	b-Improved Buffered Digital Tape Transport system is under Proposal evaluation at this time. Deliver is 90 days + 60 days for each additional unit
TV	C. Gen. Purpose Computer is being streamlined and software up-dated to expedite data handling and improve sort versatility. Delivery is 120 to 150 Days After Order. SCHEDULE
	a. personnel limitations impose a severe restraint on schedule at this time so that the following estimate is proposed
450K -	will get the Staride of system as soon as a new one can be procured. This system is much more thoroughly shaken down and documented than the one in March 1968 is the best estimate of deployment
450 K_	Will get NRL system when it is replaced by new one May is the best estimate
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