05	027154 PRESENT EFFORT Approved for Release: 2024/06/10 C05027154
	1. NRL Team. Besides Mark James O'Connorprolific ideaman who has been instrumental in the concept, design and production of the system improvements. While his effort has been remarded by professional elevation to Engineering status his growth-rate has not diminished but rather has exhibited an ever increasing trend. His contributions have been extremely valuable to the operational portions of this program
	2. Paul A. OesterlingHas continued to develop/technical skill and professional competence. As an example his rare ability to direct his attention to first one vital area of endeavor and then to another as the demands of this team **REMEMBER** change over the period of almost every day. He makes significant contribution over a wide range of the electronic discipline and has assumed an ever increasing technical responsibility culminating in the design and engineering responsibility for the system for the overseas sites.
	He has completely and overwhelmly taken charge of the demands for logistic support of the overseas sites and parts procurement for the NRL team. At regular intermals he has enhanced the image and reputation of the Total NRL/HRB team by his helpful and competent attitude and tenacity in accomplishing the outstanding supporting effort for this entire program. He is the only man on the team with no need for security clearance and there is no intention at this time to suggest that it be obtained.
	departed late August and to be replaced soon. Directly supports Mr. Wilhelm in the operational aspects of the system.
	Overseas Effort 1. Dick WalesAfter his first year for a similar tour of getting the digital system installed the site personnel trained and the operation checked out and shifted from experimental to operational status. His performance during the past year has been outstanding in his grasp of the obscure problems and the coordinat of the overall team in effecting solutions. He is the biggest bargin on this program, which is full of bargins.
	It is software. Under the housekeeping software has been honed to a sharp edge, a state of development which makes this computer system stand head and shoulders above any other similar sized machine. With the restraint of Clearance-needs which precluded/software on operational scene for makes makes the semi-unclassified software areas have received the most attention and documentation. This effort has greatly enhanced the utility of the machine systems on the operational scene by providing a complete set of tools for the sites to use in Quality Control, Digital Tape production, and Batch processing efforts. Mike Keebaugh now is cleared and he will greatly help the streamlining of the operational software which has been developed under the demand of inadequate time and operational schedules.
	2. Bob DanielsAt this time a very timely effort is under way to determine the relationships of the three and four platform collection system as functions of range, azimuth,
	Bob continues to provide the most important contributions in the operational software area but we have recently given him some help with C16 and possibly Bobs clearance will be shifted to Navy. 3. A/DDS three systems under construction and test \$350K 37777 CNLY
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Areas of endeavor wt could be undertaken at HRB which could bear significant "Payoff" program-wise:
I: Since NSA has not seen fit to publish much from the results of 7105
should we through NRL & HRB efforts, attempt to draw from the limited
supply of tapes which the Fort has made available or else from domestic
observations made at State College, significant facts concerning the
capabilities of the platforms to:
B. Compare the Standard versus where available?
C. Ascertain the most optimum where a variety have been demonstrated?
D. Evaluate the capability ofoptions for guidance on operationally tasking it in the future?
NOTE* Some of these programs like BIT have a regular Madison Avenue Publick Relations approach to their meager results and system performance capability. It seems that in the absence of NSA product we must get this Program before the community for recognition when ever possible. I merely point out that HRB has some tape where evaluation can be made with definite goals in mind and short summary reports written for both NRL use in future design as well as community use in future operational utilization of the verstatile options which will be available.
II. Standard evaluation of the ELINT side of the program on a weekly
basis has not been undertaken. NRL is cyclicly blind to all but the job
of building or designing the new systems when the older ones are being
used poorly or not up to the full capabilityPayload quality control
or calibration is a large/area particularily with as a new system. Turn-around times in the flight systems can change and are never checked.
III: The new flight philosophy of four in a much tighter grouping leaves an enormous probability for experimentally determining the most optimum operational deployment and utilization. For the first time the If this should exceed the NSA ability or for other reasons be of no interest to them, the fact that
the capability will exist is reason enough for us to foster a plan of analytic action which will make the fullest use possible of the technique. Suggest possible Gross utilization of data similar to that density count used so long ago. There may be other highly significant techniques such as in a gross manner separate out only those portions of the spectrum where there is a vast change from week to week and use this as a timely indicator where to tasks during the following period. For instance if

should indicate either the spectrum is being vacated or else the payload in use has for some reason lost its ability to intercept the signals one is accustomed to in this band. This ability for is an extremely fine QC tool for payload evaluation, if not for a Tasking

has a sudden drop in data density it

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TII(continued) *** An evaluation of the various factors which determine the best compromise for deployment of the payloads relative to each other is of great importance now.
IV. It would be highly desirable for the computer in to be able to digest the Telemetry data which provides the attitude information so that
V. It would be useful in the possible cirtical event when thrusting must be done only when the platform/xx aligned with the flight line; a contempory problem on
VI: Discemination of the UNKNOWN FILE is one of the suggested means of discovering the identity and discerning the model of the emittor. It might be possible that HRB has experinece or talent in this area. Dr. Perry is the classic example at this time.
VIII. Resident Engineer should be under consideration. Housing is as tight there as at

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