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To: Code 1000 From : 5430

Via: Codd 5400, 5000 & 4000

distory:

 $l \bullet \text{The personnel in Code 5435 of the Countermeasures Branch}$ have since March 1958 been working in the same general Program which today is granted one of the highest priorities in the $^{
m N}$ ation and is funded in excess of \$2M / year. of years while this priority was extablished and /during mxwkingh the magnitude of the effort has steadily increased both here in this Branch and in the associated Branches when are cooperating in this overall NRL effort, Personnel/in 5430 who are directly and continually active in this program remained exsentially unchanged. (In order to fulfill the obligations of Logistic Service Contract for this NRL Effort; Support of the overseas sites utilizing the NRL Huts, it has been necessary in the past 1½ years to employ under Service type contract three representatives of the HRB*- Singer Co. The high/technicalabilities three individuals has been applied toward supporting/the amajor way evolution of the future Receiving Timeing and Recording systems for use in the NRL Huts. time and certainly in the future this Contract will sontinue to be, in jeopardy at the whim of DOD. Loss of the/support xx will

JOINTLY

3. Demands in the past year, upon the personnel in Code 5435 have been extreme; requiring many long hours of intensive effort on beyond that for which they have been reimbursed. Mr. Rose in particular is the "Pace Setting" single individual on the entire NRL effort for which 54RO6-29 is the parent problem. The form of the program required the preparation of only

be disasterous to the Program in these areas, since there is

twelve "Sub-Systems"; Last year the effort have pended to a requirement for 32 and next year in the first for at least

fourty at this time and will likely increase in the future months. During this

of the commercial of

no one to replace them.

cessary to support this

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Scontinued. . . .

The ex-service man who is experienced in this Program could assist by removing some of the day-to-day logistic support for this program from the work load on Rose and Mayo and allow them to more time knumeral numerous n

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CONTROL SYSTEMS JOINTLY

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The Future of this program depends upon arguments on a very rapid to be responsive to the National Requirements on a very rapid basis. This Program has been extremely successful; in its area there is no competitor and it is the nearest to being an Operational System which exists in the National effort. This has been a NAVY "IN-HOUSEProgram from its very conception and and will continue only so long as the weak points are recognized and strengthened, and the effort toward the future requirements is carried forth.

In the stature of this Program within the Countermeasures
Branch four major areas of effort are now or should be idendentified:

1. Airborne Experimental Systems Mr. V.S Rose

(WE Withrow,

- 2. NRL Huts at overseas sites. (Mageiving and ABaconding R.D Mayo & Singer men)
- Coordination effort
 a. within NRL (Mayo/Rose)
 - b. With NSA for Analysis and New Systems(Mayo/Wald/Misner/Rose)
 - c. With NSG for Operations(Mayo)
 - d. With CSWG for requirements(Mayo).
- 4. Research, Theory and Development of New Concepts (Rose/Mayo/HRBsinge)

at least six

4. It is therefore imperative that/additional personnel be assigned to the Control to support the NRL Problem 54R06-29 in the Countermeasures branch.

ama permanent basis to august will Anot 52/ le 6-29

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4. Overtime whichimahimm in Code 5614 during the preparation for Mission 7105 has been used extensively in the preparation of the Flight Subsystems. This xmxmxmmmmm has enhanced this effort by as much as 50% beyond that which would have been possible without overtime. 5. Additional personnel could help only to the degree that they do not impose demands in excess of the service which they perform...certain EXAXX ingenious types have been tried xmxmxmxmxmxmxm in the past but with very limited success since they are alway trying to make improvements and do things in a superior manner which causes delays in interpretation and in some cases the work has had to be repeated by Mr. Rose in order to make the results conform to the criterion of comparison. A Cleared Technician would be useful if he could learn to make measurements in a certain very specific manner and be consistent and repeatable over a long time interval. In addition to this ability his personality must be such that he can work without supervision and without distracting other efforts in the close proximity. Few engineers have these necessary traits and they are extremely difficult to appraise from Form -57's or

even from personnel interview. We keep hoping that the right combination

did serve in this capacity but has far too much critical tallent in the areas of the Overseas and the domestic computer to be relaigated to this Technician job for the long haul....Paul Oesterling of HRB Singer is the

next member of out team to get clearance and does have some of the

give us significant increased capability to relieve Mr. Rose.

important attributes for this effort so that his services omendam will

will find our effort, and avail himself for our appraisal.

6. Increased Semsitivity in 7106 wxxx versus delayed Launch is a complex trade-off which will vary for each bollection band. Bands below 550 Mc are inclined to produce extremely tough RFI problems within the payloads and are not easily instrumented. The final decision on this should await operational experience with the 10 and 12 db High-Gain bands in 7105. It is possible that the data stream will be completely xxx beyond the ability to sort or deinterleave.

Says that it will make the rare intercept of the past mission commonplace for Mission 7105 and those commonplace intercepts of the past mission ywith TRANCLE VIA COMMISSION Seen from three to five times as long for each illumination.