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5430-207:RAC:jks

26 August 1965

Code 5000

Via: Code 5400
Code 5430

Personnel requirements for 54R06-29

Ref: (a) NRL ltr to DNI of Aug 1965

1. Reference (a) describes the technical characteristics of the flight equipment for next year's effort on 54R06-29. Although not mentioned, and incidentally not germane to the letter, additional effort is required in the ground equipment.
2. Flight equipment effort is expected to be approximately double that of last year because of: (1) additional frequency bands, (2) increased sensitivity, (3) more complex antenna configurations, (4) more complex command functions. The factor of increased sensitivity will undoubtedly require more testing and debugging to prevent feedback between data transmitters and signal receiving circuits. An additional two men (two engineers or one engineer and one extremely good technician) are required to augment the present staff on this phase.
3. Regarding ground equipment, four phases are apparent: (a) new receiver configuration having increased bandwidth, (b) new dual polarized antennas with remote steering combined with elevation control, (c) assembly and calibration of additional "quality control" systems, (d) improved command facilities. The addition of one man to each of these phases is required.
4. Difficulties have been experienced in the past because of insufficient liaison with cooperating NRL groups. This situation must be improved. It is anticipated that this is a full time job.
5. In order to perform the work within the time limit specified in reference (a), six to seven additional men are required. Undoubtedly, the best solution would be more employees, but this has drawbacks such as lack of specialized experience, clearances, reluctance of good men to join NRL, etc. It is felt that at least one year would be required to clear and train a new man to be effective in this program. A more immediate solution would entail increasing the effort on the existing HRB-Singer contract to cover the ground station requirements. (We are obligated to DNI not to use HRB-Singer personnel on the flight equipment.) To accomplish the required flight

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equipment program it appears necessary to re-program the entire efforts within the Countermeasures Branch with some possible assistance from other areas of the Laboratory. The implementation of the Research Department's CORE program may be of some value in this area.

6. It is considered that re-programming within the Countermeasures Branch is most undesirable since practically all other efforts are concerned with the present Viet Nam conflict and the safety of the personnel involved. A reduction in these efforts could adversely affect NRL leadership in the areas of Electronic Warfare, but there appears to be little choice.

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