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NOTES TOWARD THE BRIEFING FOR NSA, NRO, NSG, @ BASEMENT OF PENTAGON 21 NOV. Introduction by Capt Geiger with comments relative to Dr. NAKA's wishes regarding the future exploitation of the data in support of the communities needs for EOB.theater, through adjustments of processing and tasking. Note the degree of perishability or lack of/this type of data. Spectrum of prioirity order

Statement of the variety (by frequency band) of emitters which have been located in the limited processing capability of Note that the spectrum density is quite different between these two sites so that the majority of X-Band locations are historically made at It is also pointed out that the fact that an emitter is capable of being located by the Computer Aided Manual Analysis (CAMA) procedures of these two sites does not necessarily indicate that these emittors will respond tex efficiently to the Batch Processing of NSA. On the other hadd the Batch Processing of NSA today does not necessarily have to be so restrained the that NO EOB data can be effectively produced. are not so overpoweringly important that they should remain the sum and total of NSA's EOB product from (POPPY). . . By examining the software restraints in data/sorting and selection one should easily/say why these two emitter families are the only ones which qualify.

Historically the software of NSA was evovled as POPPY has grown, so that there is not necessarily a goodmatch today. In 1965 when was born the birds flew and the observation accuracy was such that a lot of averaging had to be done to obtain values of PRF (PRI) and Antenna Acan rate etc which would allow for good location accuracy. However the POPPY situation of today sees the Birds quite close and the observational accuracy improved vastly to sustain the same location accuracy which was experienced with the longer base-line ( ${}^{\mathsf{S}}$ eparation). The main aspect which has changed is the number of opportunities per unit of data-time which will respond to location analysis. In 1965 a good pass emitters were up, long enough that they both was one when two could be located. Conversely, today in one Pass there are are and to 20 emitters located by The technical aspects of and

a significant technical exchange in the ne



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ASSUMPTION # I: NSA can be persuaded to process more than the two emitter families of EOB data...the pressures can be brought to bear in this direction by Community need for EOB data in general and through the NRO Funding route. DIA probably can state clearly the needs for EOB data and the resources through which the data needs have recently been satisfied and why the emphasis at this time.

ASSUMPTION # II: NSA Will not or Can Not provide any additional EOB output in the period from now until March when other EOB resources are available...

In the face of this situation then \_\_\_\_\_\_ might at the expense of some of their other SOI location capability be given an EMITTER FAMILY to exploit for a given period of time...Under this procedure the site would need tasking relief (Support) to assure that adequate data variety was collected to support the study. It is anticipated that under such a specific effort that all the variants as well as the disposition of the emitters could result. In time it is expected that the association of UNKNOWNS? with the various weapon systems would in- time, be made. This is in direct agreement with the USIB doctrine to draw these associations so that/the Weapon system capability which would result by the new emitter could be more easily made. One must be especially clever in the priority order for the xm selection of the specific Emittor families so that the most important ones are made

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CONSIDERATIONS relative to theparticipation in the "EQB assessment" meeting in Pentagon on Friday 21 November.

1. The agenda provides ample opportunity for both NSA and NRL to outline the potential for EOB Exploitation of the data from Mission 7106 & 7105. It is assumed that NSA will resist pressures of the community toward the processing efforts directed toward EOB since their only demonstration of significance in our data has been with only two emitter families,

emitter variety is caused by the heavy restraints in the software **xexe** sprt criteria imposed by the original software of 1963-1964 when only emitters which persist for at least 100 seconds can be located due to the heavy demand for Averaging of the large number of pulsed which this long period would provide. It is not evident to NRL just how much work it would be to relax the sort c**fiteria** so that other emitters would become locatable. As we understand it, the Machine Processing effort at NSA will automatically treat only the emitters which scan 360° in azimuth and have a **R**RF between \_\_\_\_\_ and \_\_\_\_\_ Pulses per second.

At the Program Review Meeting during August NSA reported that in one 24 hour analysis period offer 2000 emitters were located by their Machine Processing but that only about 1500 have been Reported Out in about 1 year. The difference between one days worth of locations and one years worth is obsuure to us....HOW CAN NSA BE MOTIVATED TO DO THIS JOB????

The source of their funds are the NRO I suspect, this might be a fulcrume.

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.... it is believed that this lack of

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SUBJ: MISSION 7107 TECHNICAL DOCUMENTATION REQUEST

1. EXTENSIVE AND SUCCESSFUL EFFORTS TO ANALYZE MISSION 7106 SLX DATA HAVE REVEALED THE NECESSITY OF ACCURATE, PRE-FLIGHT, 3-DIMEN-SIONAL RECEIVER SYSTEM CALIBRATION PATTERNS TO REFINE SLX DATA AND THEREBY ENHANCE THE TECHNICAL INTELLIGENCE CAPABILITY. IT IS THEREFORE REQUESTED THAT NRL PROVIDE, FOR MISSION 7107, 3-DIMEN-SIONAL SYSTEM RECEIVING PATTERNS FOR SEVERAL RF BANDS OF HIGH PRIORITY.

2. THE SPECIFICS FOR THIS DOCUMENTATION SHOULD BE AGREED UPON BY NRL AND NSA AND A MEETING ON 24 NOVEMBER 1970 AT NRL IS SUGGESTED TO INITIATE DISCUSSIONS.

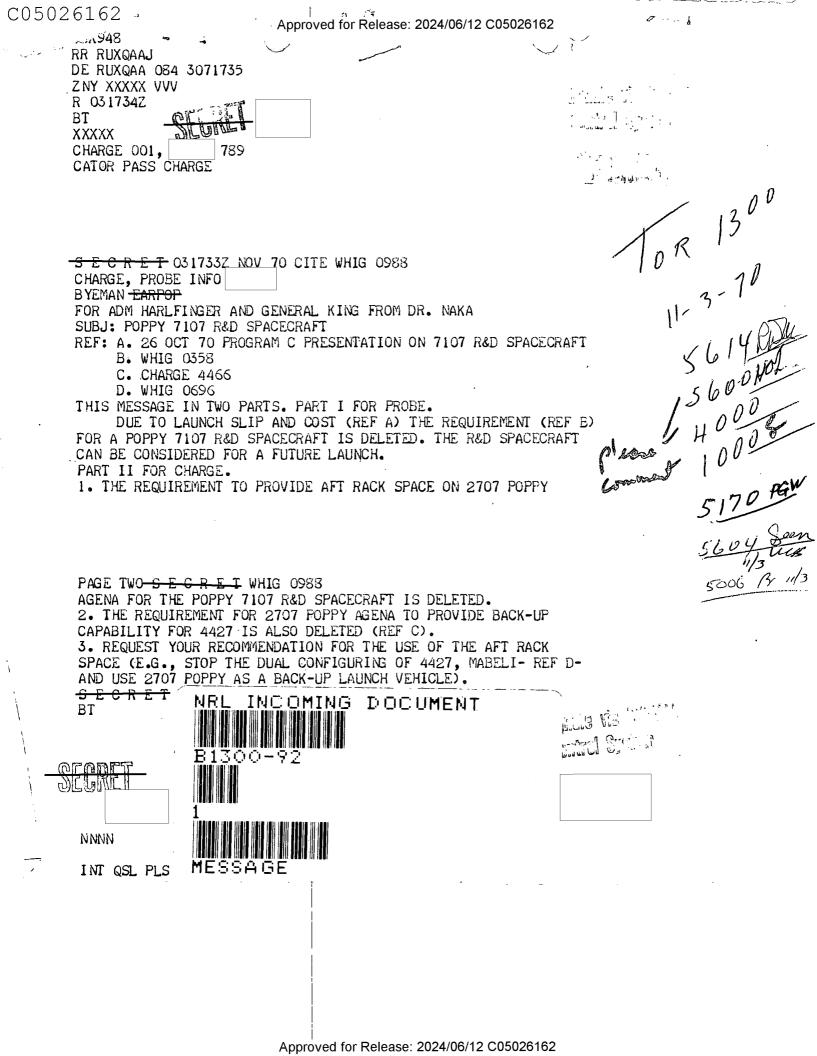
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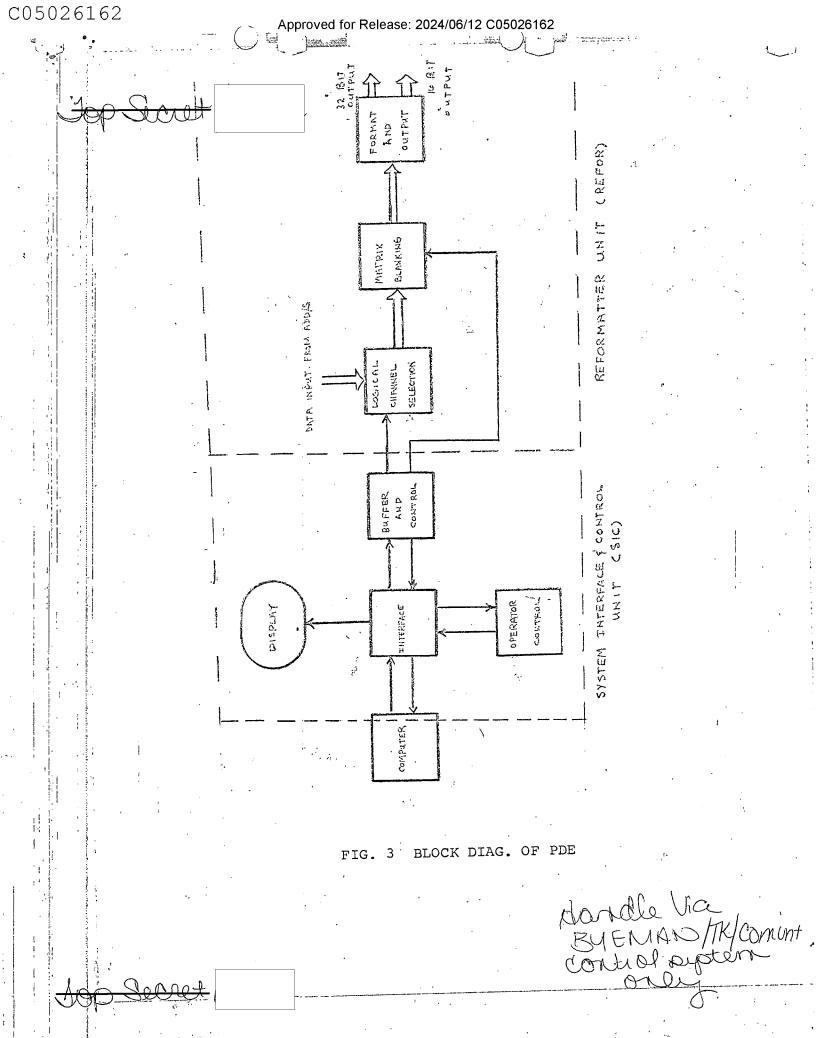
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