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NOTE TO FILE

22 June 1970

RESPONSE BY Code 5614 -TEAM IF NRL WAS ASKED TO IMPLEMENT PROPOSALS OF THE PACKARD LETTER:::: LULI BAGKEROUND was not really consulted in the staff work leading letter and those matters which were brought to our attention were not taken in our context in the final paper...for example we indicated that up-dating the first site would take 12 months if the Program "C" sites like were note relocated or if were not given either a digital nor a semi-automatic system. Since our group is oriented for an evolutionary support role now, we are poorly equipped to support a complete and total establishment of an entire new site. of up- dating sites must therefore be taken in serial fashion and at about 6 month intervals with Program "C" efforts having priority. We also submitted a paper to giveing a strong argument for not just duplicating the existing capability but rather to take a 6 year step forward from 1965 to 1971 in the availability of computing power. This would result in not just a TWO TIMES imp@dvement in our combined locational power but would be some between 40 and 50 TIMES improvement. The costs are not all that different, just the time and productivity. The plan even called for taking the existing systems from and moving them to and giving sites a larger more powerful computing system to do the existing both jobs simultaneously not on a dedicated basis as the final letter suggested. This had the merit that a strong case c#ould be made for NRO/support since they would directly benefit at the present sites by having a far greater productivity along with some improved Navy capability. The weakest point of the Packard letter is the matter of where is the money comin-It follows that it must come from the part of whiten is served by the modification or exploitation.

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\_does the NRO program get improved in this proposal? A greater acclaim

could have resulted if NRP was the major basis of adjustment of

- .2. If the NRO is asked in any way to implement this proposal NRL must be prepared to point out the methods where for the same money, the NAVY wand the NRO could be served much better than is possible by the proposal. \_ared to document this in detail with a full plan and Phis is consistent with the basic pitch we have received and Capt Geiger that we must make a consolidated proposal for enhancing our future or run the risk of being killed by attrition and other programs re-inventing our Wheel. The major hang-up seems to be exploitation of our data and with NSA in the driver's seat they will continue to sponsor other programs doing our job because these other programs' data is not as difficult to handle at NSA. It seems that we must develop the methods of streamling our overseas processing to the point that the message traffic will be acceptable to NSA: One method of gaining their blessing on this site-substantiated data is to have a man assigned to each of the processing sites from NSA so that he wan accredit the data on the spot for distribution to the users. people mightx want the same priveledge, as might the ARMY's,
  - 3. In code 5614 the personnel manning situation is poorly equipped for a gross up-dating of several sites under a forced draft. It would be necessary to get significantly more "Technician" type help for such a job as opposed to additional "Engineering" help. ESD has in the past been our largest source of recruitment in the Technician area, and at this time they are critical in personnel.
- 4. NRL Supply Division would feel the impact of such a work load and it would be necessary for NRL Management to consider the overall effect and balance it against the difficulty of getting the job done be any other measurement such as subcontracting out the entire job or procurement deployment an llation, training and logistic support which we have supported in the past. There must be a Happy medium but history will show that our forte has been in the design areas and closing of the stoop in

So working Space for such an effort is now not available...there is no suitable STAGING AREA for the division except in the hallways. Short-stop antenna development now has this problem and is asking us for the loan of one of the Trailors which was destined to house the computer for that the division except in the hallways. Short-stop antenna development now has this problem and is asking us for the loan of one of the Trailors which was destined to house the computer for the division except in the hallways.

the future plan for Program "C" effort along the matter of working space has not had/xxx consideration except as it is implied along with the subject of personnel. The completion of the entire 3<sup>rd</sup> floor is the most attractive opportunity aside from a move to the old Chemistry building. Moving the entire operation to another building would greatly inhibit the efforts of Vince ROSE as an example and the 18 month might be jeopardized. Vince's effort now has severe pains in being able to xmxmxmxm tackle more than one spacecraft at a time and this demands that they be quite similar in order to predict the schedule. He needs the use of another anechoic room and an good antenna man as one of his highest priorities. Wilhelm has both but so far only a few of our problems wex have been solved in the area of the chamber in A-59. 6- the entire area of the Interrogation complex must be pulled in tighter from a design and documentation and logistic support standpoint relative to the analog receive and record and Analysis effort under 5614. "aving it under the supervision of 5600 consultants makes this only permissibe and not mandatory. The most severe discontinuity was unintentional but neverthe less costly in time and effort both here in 5614 and in Wilhelms group when they informed Withrow that they were goin g to change ink the Channel A modulation ststem to that of a Phase Modulation system. We went right ahead blindly and order and received a quantity of Channel A receivers built by RACAL and deployed them and them we learned of the pressure.to arphi change to a Phase locked recefiver system Wilhelm was buying for their

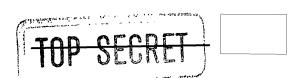
use. Mr. Withrow just didn't understand the significance of this change TOD COLOR interfacing with the command systems was by the AN

only point of interface on this one so \$80K down the drain plus ? time.

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7. The conversion of HRB Singer Personnel to Civis Service should begin by getting all of them to establish their equivalency in GS rating. This must be done first before any other step can be taken. Also, while the exposure of Jim, Lee and Mark has been far more extensive than the more eam, this is not to say that theirs is the most important talent to be incorporated in the Civis Service status. talent can be obtained more easily than other so be careful that this is considered in any attempt to XXXXXX enhance our team. little sense to convert existing contract personnel to GS: if there is such a firm limit on the ceiling points that are available unless there is an attempt to eliminate all contractor personnel. In the matter of gaining experienced and calibrated personnel for supervisory positions however, this matter has significantly higher precedence than maximum utilization of-ceiling-points. Out investment of talented personnel is very limited if you add the requirements of calibrated and available and this includes Lee and Mark in the unique group where we must seek our leadership.

8. In the matter of an Administrative Assistant for 5614 I would if all things were equal suggest that he be a Male with Engineering Management and Staff support experience so that a portion of the liasson effort could be shared. The standard requirements for communications both verbal, mmxmkmmmmmx and wn paper are necessary. His GS stature could be GS-13 or higher with a degree of maturity and judgement evident. One of his jobs would be to see that the work is carried out and to ease the interfaces between the various groups with the Program "C" effort at NRL. This may sound like I am writing my own job description but that is the nature of the job; to do many of the things that I have had to do in the past.



HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

DIA BRIEFING AT NRL ON 1 July 1970, Plan for and contents for such a briefing as viewed on 23 June. The visit is occasioned by the arrival of the "Packard Letter" on the DIA scene and they must be striving to assess the validity of the POPPY Program as a vehicle which sustifies this manner of exploitation and expansion during the climate of retrenchment and reduction in the overseas type investment. On this basis it must be concluded that while here at NRL this party must come-on-board the POPPY program in sufficient detail to understand the the aptential does indeed indicate that NAVY exploitation is possible, attractive and only a beginning of multi-service exploitation of this profific Space Sensor. We must identify the jurisdictional constraints under which POPPY effort

gama managed, tasked, operated, xxx analyzed and reported.

give the indtoduction the burden is on him or By having a selected alternate to give a concise pitch as to the orientationof effort within NRL, NAVINTCOM, NAVSECGRU, NAT SECURITY AGENCY, SORS The size of the effort at NRL and how it is divided kw AND USIN ETC. between ARD for Wilhelm and ELINT effort under EWD



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Tile in Briefing file.

AGENDA FOR VISIT OF

## DIRECTOR OF NAVAL RESEARCH

25 June 1970

Arrival at NRL Main Gate - Escorted by CAPT Davis representative to Bldg. 56, Rm. 200D.

	1405-1415	Introduction and Welcome	
	1415-1425	Organization Structure for Program "C"	R. Mayo
	1425-1445	NRL Facilities, Evolution of Hardware and Spacecraft Techniques	P. Wilhelm
	1445-1505	Program "C" Evolution	R. Mayo
	1505-1525	Program "C" Achievements	L. Hammarstrom
	1525	Depart Bldg. 56 and move to Bldg. 59 for a tour of facilities	P. Wilhelm
	1555	Depart NRL, Main Gate	
Ju	his breifing	with new DNR was difficu	et & spotty

feel use one him adeller view four expertise.

MEMORANDOM, TO FILE	22 June 1970
Notes following the me	etings during the past week with
1. A systems analysis	group has been formed under Gen Allen:
7-4	SAF = Telemetry
	(NSA)(Bormerly of the N-group) = Telemetry.
- c ·	$=\frac{1}{1600}$ $\frac{1}{1600}$ $$
2. Under Sec. Frolke a	gent by the name of VANCE has responsibility for
performing the System	Analysis of the NRPhe met under some circum-
	of CIA and the result was a merger for the alysisthis now gives the power of
The state of the s	ner institution of the cost of tention to properly of requesting information and certainly it will
$\mathcal{F}^{*}$ , which is given	(Laire Frair 6) - 60 - 50/2 (florence go aftern i vez inciri ni i
bend many of	s old antagonists all out of shape, (NSA, NRO
and some in DIA)	na madom a la gille transcribe de vice a la de la
3. h	as replaced Charles CRAM as leader of the POPPY
respurces at NSA shows itude for this histori	all indications of having the right "can do" att- depend on which is a domain or human into discount of the comes equipped with his defend on the comes of the comes of the comes.
share of prejudice and normalize some of his	I have recommended that Ron POTTS can be able to the property of the state of the s
design and tasking whi	to participate in many of the areas of spacecraft on the control of the control o
as his inputs are cons	tructive it is all right with me but I suspect that
much missionary work i	s needed with him tomake him a strong believer in
our type system. He h	as many times already sung the praises for the
"Record and Dump" Mult	igroup type system with its 150 n.mi. diameter collection. In any consideration of future designs
bownwiard fooking type	blandla Kin Ricord
for this view is that	n he will push. The only reason I san advance of the data from such Multigroup systems represents
a much reduced work lo	ad for NSA. The basic counter for this locate is
	ice which sponsored Multigroup now is with,
	which we have pieneered

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The state of the s	ASSESSMENT OF THE PARTY OF THE		100

called in HEAD of the "A" Group. His testimony
regarding the needs for coverage against the Ka Band ground
based threat was very excellent and somewhat late since NSA has contri-
buted nearly nothing in the architecture of Mission 7107 to date even
though they have attended all four meeting under the sponsorship of
Now it seems that Ka band is a real threat for SAC and we must be able to not only intercept but also must locate the signals like
The former one has been infented by POPPY 7105 and
7106 and even though for 7 months when 7106 was fully operational and
tasking was provided in two of the operational groups(A-6 and A-9)  If we divisible to the received position is all ability at all and the attacking to the NSA has been unable or unchallenged in their analysis of the 100 MHz
from 14.8 to 14.9 to provide any locations. The main reason for this
is that their machine processing will not do this job automatically
and they haven't thought about doing it any other way until Tuesday
16 June. Ken GALLAGHER now is trying to find data that is seen in
common in this band so that they can try to locate some signals in Ka-
His first statement was that when ever the was heard it has not
been reported as I think that the records at
should be querried NSA's answer came back a little too quick unless
they have it in computerdata base.
I suggested that the only way we could adjust our 7107 concept to help would be to include for the other higher freq
the state of the s
Ka band from 14.8 to 15.1 GHz as well as the lower one already under
our scheduled program. In case some band must go I asked them to assess
was that it is on the MiG-21 FISHBED J version as an AI (nose mounted) installation and would not be a good high interest challenge for our
the validity of the 13.3 GHz signal as a threat for POPPY and their answer was that it is on the Mig-21 FISHBED J version as an AI (nose mounted) installation and would not be a good high interest challenge for our mainbeam system but incase the hardware was also used for some other purpose than AI systems we should go ahead with it. Therefore the
purpose than AI systems we should go ahead with it. Therefore the listed pirority for Ka band is as follo
listed pirority for Ka band is as follo  13.3 (12½ to 14½) th Approved for Release: 2024/06/12 C05026126
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