SECRET

K46

29 August 1969

K461

Reaction to NRL Proposed Tasking of 7106.

- 1. Herewith are recommended alterations to the NRL recommended tasking of the first five passes of the 7106 intercept system.
- 2. The following frequency bands are deleted because of either duplication in adjacent vehicle or a combination of high signal density and lock of supporting signal of interest.

7106 Charlie, Band #6 550-650 MHz, Very high Allied/No SOI.

Band #10 1800-2100 MHz, duplication

7106 Delta, Band #11 2100-2580 Mhz, duplication

Band #9 1205-1800 Mhz, Very high US/Allied, No SOI's.

3. The following Tasking is recommended:

Vehicle	Band	Frequency	P/W	Signa	lof	Interest	Density
7106A	#2	165 - 200 M					Mod/Heavy
	#10	1800-2100M					Mod.
	#4	350-450 M					Light
7106B	#1	154-165 M					Li/Mod.
	#11	2100-2580M					Mod.
771060	#9	980-1080 M					Light.
7106C	‡ #2 3	14.6-14.9	}				Mod.
	#7	835-970 M					Mod.
71060	#20	6700-7300M					Mod.
	*(#16)	3300-3600M					Light
	₩4	350-450 и					Light
	* 50B	(NGBBANDS)					

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	Priority data collection set down the technical assessment mun st make. Certain factors which must be disclosed
re (1) Emit	ter Location, (2) PRF characteristics and (3) Antenna Acan
haracterist:	cs (4) along with parametric measurements of
5)	measurements to the tolerance desired.
In additi	on to these factors the USIB guidance set forth a doctrine

In addition to these factors the USIB guidance set forth a doctrine of "Associative Analysis" whereby the analysis community must view simultaneously the total known polulation of all elements of a Weapon System and by complete correlation with the five parameters listed ablve, sort out all unknown emittors which by one or more of these criticeria, show a potential association or kinship to one or more elements of the Weapon System. POPPY is ideally suited for such wide-spectrical search and the associative type analysis. Table # 1 has been provided to show examples of the TASK #1 is the BASIC ABM/AES search task.

TASK # 2 is the ABM Task altered to take advantage of the recognition of the TRY ADD signal.

TASK # 4 is desinged for that special occasion when the community would desire to monitor the entire spectrum from 154 MHz to 9.340 MHz without a gap. The band from 9500 to 10.000 MHz can be added if this is desirhave escessive data density
able but it is considered to/bexteexdensexferxthixxx for inclusion here.



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26 Sept.

BASIC PREDICTIONS FOR SSION 7106 Equator Crossin and times relative to a predicted/13 pt Lift Off from the Launch site:

ORBIT #	EQ-Crossing Longitude	T I M E Day HR-Min-SEC
1.	58.69°East	26-14-03-17
2	32.59	15 46 47
3	6.49	17 30 17
4	19.61°West	19 13 47
5	45.71	20 57 18
6	71.81	22 40 48
7	97.91	27 00 24 18
8	124.00	~ 02~.07 ;48
9	150.10	03 51 18
10	176.20	05 34 48
11	157.70°East	07 18 19

Frequency of the Data and Telemetry transmissions of Mission 7106 are as follows:

106A 7106B 7106C 7106D 7105A 7105B

recorders loaded and patched appropriately for a 2½ hourperiod each day after

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SIGNAL TO RECODED	TRA RA	ASSIGNMENT	#	2 (FOR	SITE	WITH 4	DATA	RECEIVERS).

RECORD	EK		E C R A F ta-channel	T Signal recorded	
(PRIMARY & SECO	NDARY)				
#1FN		7106 A	Channel B	Standard 1	POPPY Data
3 "	#	7106 B	Channel C	Standard 1	POPPY Data
5 . "	er .	7106 C	Channel B	Standard 1	POPPY Data
7 "	40	7106 D	Channel C	Standard 1	POPPY Data
6 Ar	nalog			Mixture of 50	Kc and Time Code.
PRIMARY				-	•
2. Ar	nalog	7106A	Channel A	Housekeep	ing Telemetry
. 4 "		7106B	Channel A	tt .	99
SECONDARY		•			·
2 Ar	nalog	7106C	Channel A	Housekeep:	ing Telemetry
4	TO THE PERSON OF	7106D	Channel A		\$1

NOTE: The Format here offers the sites with only four data-receivers to receive and record two pairs of spacecraft simultainously during the first five orbits with minimum loss of critical data. The Information which is not recorded is from the parametric measurement options thus there is a minimum sacrifice in the data from the analog-sites. The major difference in the record-Format is that on one of the two tapes (which are made simultaneously) the housekeeping telemetry data from 7106A and 7106B is recorded on track #2 and #4 respectively and on the other tape the telemetry data from 7106C and 7106D are recordedon track #2 and #4 respectively. The data on Tracks 1,3,5, and 7 is exactly the same on each of the takes. This just provides the redundency in the tape recording systems. The site must be sure that the record electronics used in Track #6 is the specially modified analog-record amplifier with the accessory for recording the oscillator. Reference/tone.....



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