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ROUTE SHEET
 PRNC-NRL-10-863d (Rev. 6-54)
~~SECRET~~~~CONFIDENTIAL~~

CODE	DATE	INITIALS	PURPOSE	REMARKS
1000	3/31	MM		
4100	4/7	AF		an APR 2 1958
5400	4/15	PCY		APR 1 4 1958 5403 by 4/14
4130	4/9	GM		Action being taken on same th. forwarded by ONR on RS 0216
1510	4/11	RM		(4130) 8 PM
1511	4/11	BM		
5410	4/16	CRD		5416 HED 5416 copy retained
5430	4/24	BoP		Copy made for R06-29 file - Bus
				Classified by: CNO Review on: 28 Mar 1958
1000	4/28	MM		
1500	5/5	sp		Have we answered yet? Horns
1511				Yes
1000	5/5	MM		You should keep track of these allocations & request for frequencies Horns
1523				We did not

INSTRUCTIONS

Prepare 2 copies of this route sheet and forward ALL copies together with necessary correspondence and other documents.

PURPOSES

1. FOR INFORMATION
2. FOR APPROVAL
3. PREPARE REPLY
4. PREPARE ENDORSEMENT
5. FOR NECESSARY ACTION
6. FOR SIGNATURE
7. RETAIN ENCLOSURES
8. RETAIN COPY

~~SECRET~~

FROM: CNO to ONR

DIVISIONS DO NOT FILL IN

DATE OF MATERIAL
26 Mar 58BRANCH IDENT. SYMBOL
4130-44

ORIGINATOR SYMBOL (Mail Room Fill in)

OP-301Q/mcf
Ser 06568P30

Reg. #3953309

DATE MAILED

FILE NO.

R06-29

SUBJECT

Frequency Allocation Requirements for Satellites or other outer space vehicles

HANDLE VIA

BY MAN

CONTROL SYSTEM ONLY

~~CONFIDENTIAL~~

R/S NO. (Mail Rm. Fill in)

0223

~~SECRET~~~~CONFIDENTIAL~~
~~CONFIDENTIAL~~OP-301Q/mcf
Ser 06568P30

26 MAR 1958

1000
5400
1523

From: Chief of Naval Operations
To: Chief, of Naval Research

Subj: Frequency Allocation Requirements for Satellites or other outer
space vehicles

Ref: (a) NRL ltr 4130-15:JTM:eb, NRL Prob. A02-86 ser 858 of 22 Jan 1958
(b) CNO ltr Ser 12263P30 of 8 Jan 1958

1. Reference (a), in response to reference (b), supplied information regarding plans for continued use of 108 MCS and 108.03 MCS in earth satellites beyond the International Geophysical Year.
2. United States frequency allocation planning for the next International Telecommunications Union (ITU) Radio Conference, Geneva 1959, is nearing completion. In view of the need expressed in reference (b) for frequencies for satellite telemetering and tracking well beyond 1 January 1959, it is necessary that frequency allocation provision for this purpose, and for other possible needs, be included in military frequency allocation planning.
3. The frequencies 108 MCS and 108.03 MCS, which were provided on a temporary basis to meet IGY needs, are not suitable for permanent retention for satellite telemetering and tracking. Additionally, no interference protection can be afforded to Minitrack stations employing these frequencies because of current frequency allocations to established radio services, i.e., 88-108 MCS FM Broadcasting and 108-118 MCS Aeronautical Radionavigation, VOR and ILS Localizer. This situation was defined at the time initial assignment of 108 and 108.03 MCS was effected.
4. In view of the above, foreseeable frequency requirements relative to communications, telemetering, and tracking to and from satellites or other outer space vehicles should be determined on appriority basis. Frequencies which may require international standardization or protection should also be determined in order that provision may be included in U.S. proposals to the 1959 ITU conference.
5. A preliminary investigation indicates that the following frequency bands may be suitable, in part, from a frequency allocation standpoint, for the satisfaction of the subject requirements:
- Ref 379-3309

1228 MWB S8 T3 40

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Review on: 28 Mar 1988~~CONFIDENTIAL~~

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Ser 06568P30

26 MAR 1958

132 - 144 MCS
148 - 150.8 MCS
225 - 400 MCS
1700 - 1850 MCS
2200 - 2300 MCS

14000 - 15250 MCS
20000 - 22000 MCS
25000 - 27500 MCS
31500 - 33000 MCS
38000 MCS up

Frequency bands below 400 MCS are capable of satisfying narrow emission bandwidth requirements in the order of 30 - 300 KCS. Frequency bands above 1700 MCS are capable of satisfying greater emission bandwidths in the order of 5 - 10 MCS.

6. It is requested that the following information be supplied by 10 April 1958, or at the latest by 1 May 1958:

<u>Function</u>	<u>Freq Band</u>	<u>Type Emission & Bandwidth</u>	<u>Power</u>	<u>Minimum No. Channels</u>	<u>Transmitter Location</u>
a. Tracking					
b. Telemetering					
c. Communications (including voice, data, television)					
d. Other functions					

For each of the frequencies required to support the above functions, an indication should be made as to whether international standardization or protection is required.

Captain, U. S. Navy
Assistant Director, Naval Communications
By direction

Copy to:
NRL (Code 4130, 5416)
ONR (Code 906)

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