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DoD me*
HANDLE VIA
BYEMAN
CONTROL SYSTEM

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~~(S)~~ NATIONAL RECONNAISSANCE OFFICE
WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

1 November 1974

MEMORANDUM FOR MR. CLEMENTS, DEPUTY SECRETARY OF DEFENSE

SUBJECT: DoD Mission Model for Shuttle

In a recent meeting, we discussed changes in the DoD mission model for Space Shuttle and how these changes might reflect on DoD utilization of the system. The attached chart is a consolidated all DoD mission summary of both national reconnaissance and normal DoD missions for the early years of Shuttle application. The chart shows utilization data for August 1971, as used in the Shuttle economic studies, versus the present (October 1974) predicted Shuttle satellite traffic (e.g., 2/1 indicates 2 applications in '71 model reduced to 1 in present model).

Although there is considerable change in the program, specifically a reduced number of HEXAGON and GAMBIT flights, you will note that on balance the totals for DoD and NRP are relatively constant.

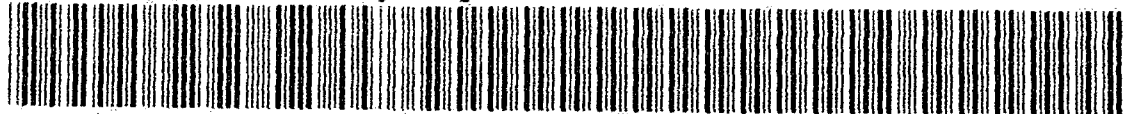
[Signature]
J. W. Plummer

Attachment
Chart

cc: Dr. McLucas, SAF

BYE-13432/74

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HEXAGON/GAMBIT/

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CLASSIFIED BY BYEMAN - 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11652 EXEMPTION CATE-
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COMPARISON OF DOD SPACE MISSION MODELS

AUGUST 1971 / OCTOBER 1974

SATELLITE TRAFFIC MODEL

(b)(1)
(b)(3)

SYSTEM	FY	80	81	82	83	84	85	86	87	88	89	90	TOTAL
Defense Satellite Communications System (DSCS)		1/0	1/2	1/2	2/0	2/0	0/0	1/2	0/2	1/0	1/0	1/0	11/8
Fleet Satellite Communications System (FSC)		1/2	0/1	1/1	1/0	1/0	1/2	0/2	1/0	1/0	1/0	1/0	9/8
Satellite Data System (SDS)		0/1	1/0	0/0	1/1	0/0	2/1	0/0	1/0	0/1	1/0	0/0	6/4
Survivable Satellite Communications System (SSCS)		9/0	0/0	0/2	3/2	3/0	3/0	0/0	0/2	3/2	3/0	3/0	27/8
Defense Support Program (DSP)		1/1	2/1	2/1	1/0	2/1	2/1	1/1	2/0	2/1	1/1	2/1	18/9
Defense Space Surveillance Satellite (DSSS)		0/0	0/0	0/3	4/0	0/0	2/3	2/0	0/0	2/3	2/0	0/0	12/9
Ocean Surveillance System I (OS I)		2/0	1/0	1/0	1/0	1/0	0/0	0/0	0/0	0/0	0/0	0/0	6/0
Ocean Surveillance System II (OS II)		0/0	0/1	0/1	0/0	0/1	4/1	0/0	2/1	0/1	2/0	0/1	8/7
Ocean Surveillance System III (OS III)		0/1	0/0	0/1	0/1	0/0	0/1	0/1	0/0	0/1	0/1	0/0	0/7
Defense Meteorological Satellite Program (DMSP)		3/2	3/2	0/2	3/2	3/2	0/2	3/2	3/2	0/2	3/2	3/2	24/22
Global Positioning System (GPS) NAVSTAR		5/6	0/2	5/1	5/8	5/16	0/4	5/4	5/4	5/4	0/4	5/4	40/57
Transit		2/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	2/0
Satellite Inspection/Negation System		0/0	0/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	9/0
Space Test Program		0/1	0/1	0/2	0/2	0/2	0/2	0/2	0/3	0/2	0/2	0/2	0/21
DOD SUBTOTAL		24/14	8/10	11/16	22/16	18/22	15/17	13/14	15/14	15/17	15/10	16/10	172/160
HEXAGON		3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	33/11
GAMBIT		3/2	3/2	3/2	3/2	3/2	3/2	3/2	3/2	3/2	3/2	3/2	33/22
NRP SUBTOTAL													
GRAND TOTAL													

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