#### (S)-NATIONAL RECONNAISSANCE OFFICE

WASHINGTON, D.C.

2 February 1979

THE NRO STAFF

MEMORANDUM FOR CHUCK SNODGRASS (HOUSE APPROPRIATIONS COMMITTEE)

SUBJECT: Request for Information

Per your telecon request to Mr. Hill on 23 January 1979, the attached tables depict the status of all NRO satellites on-orbit as of 31 December 1978 and their capabilities thru 30 September 1980.

DAVID F. DOYLE, Lt Col, USAF Deputy Director for Programs and Budget Office of Space Systems

2 Attachments

- 1. Table 1
- 2. Table 2 ·

Cy to: IC Staff (Capt Bill Working)
ASD (C<sup>3</sup>I) (Dr. Dinneen)

BYEMAN-TALENT-KEYHOLE-COMINT

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(S) NATIONAL RECONNAISSANCE OFFICE Refin: W. Hall.

WASHINGTON, D.C.

THE NRO STAFF

23 January 1979

MEMORANDUM FOR THE RECORD

SUBJECT: Request for Information

Mr. Chuck Snodgrass, House Appropriations Committee Staff, called today and requested the following information:

- A table depicting the status of all NRO satellites on orbit and the condition of each. The 30 December 1978 NRO Status Report should be used for this purpose and it should be structured in the same format as last year's input to Mr. Snodgrass on the same subject.
- A summary chart which indicates the on-orbit NRP satellite capabilities as we currently expect them to be on 1 October 1979 (start of FY 1980).
- An additional chart which indicates our projected status as of 30 September 1980 (end of FY 1980).

While he didn't give us a specific date, we should probably shoot to have the information available by the latter part of next week. A copy of the information provided should be given to the IC Staff.

> J. D. HILL Director

cc: P&B

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HANDLE VIA

BYEMAN-TALENT-KEYHOLE-COMINT
CONTROL GYETEMS JOHNTLY

# TABLE I CURRENT STATUS OF NRP ON-ORBIT SATELLITES AS OF 31 DECEMBER 1978

		ASO	OF 31 DECEMBER 19	25)
Vehicle	Launch Date	NRO Staff Estimated Termination Date*	Current Operating Capability (%)*	Comments .
MABELI	20 Jul 72	May 79	0%	Normal tasking suspended due to power system converting most energy to heat (battery aging). It is unlikely that normal tasking will be resumed prior to expected reentry in May 1979.
ТОРНАТ	11 Apr 74	Mar 79	50%	The Spacecraft is operating with one recorder in a very limited utilization of full read-in/read-out only. Orbit decay and burn-in is expected in May 1980.
*	HANDLE V BYEMAN-TALENT-KEY CONTROL SYSTEM	HOLE-COMINT -TOP	SECRET	ATCH TO CONTROL NO. BYF

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BYEMAN-TALENT-KEYHOLE-COMINT
CONTROL SYSTEMS JOHNTY

Launch NRO Staff Estimated Current Operating		
Vehicle Date Termination Date * Capability (%) * Comments		
RAQUEL-1 29 Oct 74 Mar 80 50% The Spacecraft lost the techn receiver 6 months after laund vehicle, including all three retioning normally.	ch. The remaining	
UR SALA-3 8 Jul 76 Nov 79 75% The Spacecraft is functioning for a slight loss of sensitivity from a year ago.	g as required except y. This has improved	
RAQUEL-1A 16 Mar 78 Aug 81 100%	25X1	

HANDLE VIA BYEMAN-TALENT-KEYHOLE-COMINT CONTROL SYSTEMS JOINTLY

TOP SECRET



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HANDLE VIA-BYEMAN-TALENT-KEYHOLE-COMINT CONTROL SYSTEMS JOINTLY

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NOTES: * that NRP system	Current capability is compared to design requirements only. In severans have significant built-in limitations; e.g.,	I cases, the community has noted
and warning, sea	a. The current approved imagery systems lack the access capability/carch, technical intelligence, general surveillance, and crisis reconnaissa	
	b. The lack of inherent capability to satisfy require	ments of the DCI.
the DCI.	c. The telemetry satellite's lack of ability to collect	signals as required by
	total capacity to meet the DCI intelligence requirements is actually sourrent operating capability.	omewhat less than indicated by the
	The percentages are the NRO staff estimates which may weigh missio However, the utility of a system is qualitatively indicated: 5% - The sy significant losses in collection capability; 95% - barely constraining, e	stem has little collection capability;
design life. Som	The termination dates listed above are the NRO Staff's best estimate mission status information and extrapolation of past experience and mane minimum residual capability may still exist at the termination date of the tothis date because many of the vehicles are now operating on their limits.	y not concur with the predicted mission or alternatively some systems may

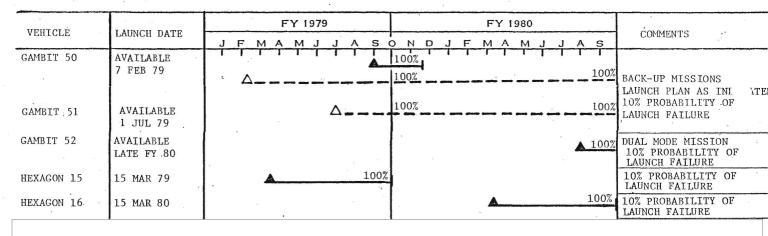
HANDLE VIA BYEMAN-TALENT-KEYHOLE-COMINT CONTROL SYSTEMS JOINTLY,

TOP SECRET

TABLE II

RANDLE VIA BYENGERALE

## SUMMARY OF ON-ORBIT NRP SATELLITE OPERATING CAPABILITIES 31 DECEMBER 1978 THROUGH 30 SEPTEMBER 1980 (END OF FY 80)



A LAUNCH or FOC

A ... AVAILABILITY OR IOC

MISSION DURATION .... DEGRADED CAPABILITY

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FY 1979

#### TABLE 11

FY 1980

# SUMMARY OF ON-ORBIT NRP SATELLITE OPERATING CAPABILITIES 31 DECEMBER 1978 THROUGH 30 SEPTEMBER 1980 (END OF FY 80)

MABELI 20 JUL 72	TED MA
TOPHAT 11 APR 74 5% 0% BURN-IN EXPECTED 74 50% 30% 0%	TED MA
RAQUEL 1 29 OCT 74 50% 30% 0%	
RAQUEL 1 [29 OCT 74   possessessessessessessessessessessessesse	TED MA
URSALA 3 8 JUL 76 75% 50% 25.	25 <b>X</b> 1
RAQUEL 1A 16 MAY 78 100% 85% 65%	
URSALA 4 15 MAR 79 A 95% 75% 10% PROBABILITY	ITY OF

