18) NATIONAL RECONNAISSANCE OFFICE

WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

March 13, 1972

MEMORANDUM FOR MR. RUSH

MR. HELMS DR. DAVID

SUBJECT: Proposed Changes for the KENNEN Relay Satellite

Program

The KENNEN Data Relay Satellite (DRS) Program is nearing the start of the acquisition phase and requires some changes in the security provisions and management structure to ensure the necessary security protection for the NRP. Attached herewith are several options which have been formulated to achieve this objective.

Your guidance in this matter is requested.

John L. McLucas

Attachment DRS Issue Paper



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		MANA	NAGEMENT		
KENNEN	DATA	RELAY	SATELLITE		

ISSUE

What is the best management and security arrangement fo the Data Relay Satellite (DRS) segment of the KENNEN program

BACKGROUND

- 1. Rationale for Current Management Plan. The KENNEN

 Data Relay Satellite (DRS) is currently under the management

 of the Air Force Space and Missile Systems Organization (SAM

 and designated as was originally

 assigned to Air Force management vice the NRO for several

 reasons:
- a. <u>Financial Impact on NRP Budget</u> The addition

 of DRS funding (FYDP total) could drive the

 total NRP budget level above
- b. Air Force Role The Air Force (SAMSO) was alreinvolved in support of other DOD communication missions and the resources to develop and operate this type of system.
- c. <u>Mission Orientation</u> The DRS evolved as an int and necessary part of the KENNEN reconnaissance system and i

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principal design requirements for high data rate transmission were determined by the KENNEN mission. However, when we originally assigned the DRS design studies to the AF we believed that there might be other programs with mission requirements which could also use the DRS and that a management appropriate to a multimission system was therefore (Under this situation, KENNEN would be only one of many users and keeping its participation secure would not be difficult.) Hence, the DRS was planned as a multipurpose communication relay satellite under Air Force management with the intent of meeting the NRO needs and also insuring that communication technology and mission support would be availa for other users. This approach is consistent with the NRO practice of limiting its internal programs to those reconnai sance missions which cannot, for security reasons, be perfor by other organizations.

2. Change in Security Criteria. During the technology phase (1969-1972), that portion of the DRS dedicated to KENN support was conducted under Air Force SECRET/Special Access Required (SAR) security to insure that the priority KENNEN segment was not compromised. However, we have recently decitated that the KENNEN segment of the DRS must be provided BYEMAN

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security control to insure optimum covert protection for the NRP. This decision necessitates a re-examination of the ent management plan for the DRS program.

DISCUSSION

The change in security philosophy inherently necessitat changes in the planning, programming, and budgeting of the D program as now structured. A number of options addressing various management schemes are summarized below for your rev All options provide for the covert development of the KENNEN segment of the DRS but at varying levels of confidence in be able to maintain the overall security of the KENNEN system.

OPTION 1 (Black₁)

	Contract		Technica1	Funding		
Management/SPD	<u>Authority</u>	Security	Requirements	<u>Funding</u>		
OSP	OSP	OSP	OSP	NRP		

Under this option the present overt DRS program would be terminated, and the acquisition phase would be initiated as an NRP entity. Complete management and System Program Direc (SPD) responsibility, including security and contracting activities, would be assigned to OSP/NRO. All technical requirements would be integrated by the OSP KENNEN Project Office. SAFSP would support the KENNEN SPD in areas of laur



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vehicle procurement and integration and SCF support for
launch operations. The Air Force planned mission capabiliti
would be reassigned to some other
DOD space program leaving the DRS fully dedicated to NRP
programs. Funding would be totally under the NRP (adding ab
to the FYDP).

OPTION 2 (Black₂)

Management/SPD	Contract Authority	Security	Technical Requirements	Funding
OSP	OSP	OSP	OSP/AF	NRP (AF p

This option is the same as Option 1, with the exception that the Air Force payload requirement would remain a part of the DRS payload. The Air Force (SAMSO) would manage their "White" segment of the payload under the Deputy for Space Comunications and interface with the KENNEN SPD. This managem approach is similar to that provided by

Security and contracting activities would be similar to Option 1, except that the KEN SPD would provide the additional security and contracting for the Air Force payload segment. The Air Force would provide their technical requirements to the KENNEN SPD, and the door would be left open for DRS support of future DOD/NRP mission

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The Air Force would provide about over a three-year period to the NRO for development and acquisition of the "White" payloads.

OPTION 3 (Black₃)

	Contract		Technical		
Management/SPD	Authority	Security	Requirements	<u>Funding</u>	
SAFSP	SAFSP	SAFSP	OSP/Air Force	NRP (AF	

This option is similar to Option 2, except that the Director, SAFSP, would develop the Relay Satellite on behalf of OSP (the KENNEN SPD) and would have Management/SPD, Contr Authority, and Security responsibilities. SAFSP would be un the general direction of the KENNEN SPD and would be the foc point for the OSP and Air Force technical requirements. SAF would arrange for launch vehicle procurement, launch vehicle integration, and SCF support. Funding arrangements would be the same as with Option 2.

OPTION 4 (Hybrid₁)

Management/SPD	Contract Authority	Security	Technical Ty Requirements Funding			
Air Force	OSP/AF	OSP/AF	OSP/AF	AF (with of partiating by NI		

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Under this option, the DRS program would remain under
Air Force (SAMSO) management except that the KENNEN segment
contract authority and security would be assigned to OSP.
The Air Force Relay Satellite SPO would be responsible to
the KENNEN SPD for insuring that the KENNEN requirements are
satisfied. To the uninitiated, the DRS program would be
dedicated solely to the Air Force
The Air Force (SAMSO) would have separate contract authority
and security provisions for their "White" payloads and launc
vehicles. This arrangement would probably necessitate some
overall integrated security package which could prove diffic
because of the different security operating procedures emplo
by OSP and the Air Force. The Air Force (SAMSO) SPD would
receive and integrate the KENNEN payload technical requireme
(contract authority remaining with the CIA). The Air Force
would continue to budget and justify the total DRS funding

KENNEN payload segment. The DRS program would be funneled through Air Force and DOD for Congressional review. The two Air Force missions may not by themselves adequately justify the expense of the DRS program. However, a variation of fun

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Air Force budget for the KENNEN payload segment and adding it to the NRP budget. Whichever way one perceives this opti arrangement, "split funding" will create some management problems.

OPTION 5 (Hybrid₂)

Management/SPD	Contract Authority	Security	Technical Requirements	Funding
Air Force	SAFSP/AF	SAFSP/AF	OSP/AF	AF (with of partia ing by NR

This option is similar to Option 4 except that the Director, SAFSP, would have the responsibility for the KENNE payload BYEMAN security and contract authority. SAFSP would appear to the Air Force (SAMSO) as a payload customer seekin a service. The SAMSO SPD would have overall responsibility for conduct of the total DRS program. SAFSP would obtain technical requirements from and interface with OSP and provi the KENNEN payload segment to the SAMSO SPD for integration. The SAMSO SPD would also integrate "White" Air Force technic requirements and interface with SAFSP (rather than OSP). The SAMSO SPD would have direct access to the DNRO for resolution of any conflicts. Funding arrangements would be similar to



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	OPTIO	N 6 (Hybri	.d ₃)	
Management/SPD	Contract Authority	Security	Technical Requirements	Funding
Air Force	SAFSP/AF	SAFSP/AF	OSP/AF	Air Force
Under this	option the	DRS progr	am would remai	n as prese
constituted und	er the mana	gement of	the Air Force	(SAMSO) ex
that the Direct	or of SAFSP	would be	charged with s	support
responsibility	for BYEMAN	contractin	ng a nd security	administi
of the KENNEN s	egment. Th	ne KENNEN t	cechni cal requi	irements a
security policy	would cont	inue to be	issued direct	ly to the
Sys	tems Progra	m Office (SPO) by the KE	NNEN SPD.
	SPO would	be respons	ible for all c	ontracting
budgeting, fund	ing, securi	ty (includ	ing KENNEN mus	t know
authority), into	egration of	requireme	nts and manage	ment of al
segments of the	DRS progra	m. Total	DRS program fu	nding woul
be provided thre	ough Air Fo	rce/DOD ch	annels; howeve	r, about
SPO for the BYEN	MAN contrac	ts. To in	sure streamlin	ed manager

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and optimum security protection, minimum reporting and revie
would prevail and only key individuals in Air Force/DOD
channels would be designated as having access to the DRS
program. The SPO would have direct access to me
for all funding requirements and resolution of DRS conflicts

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Relay Program Management Direction	Progra Implemen	am tation	1 Kennen	ity AirForce Payload	Kennen Security	Tech Req'ts	Funding
OSP	OSP	OSP	OSP	Х	OSP	OSP	NRP
OSP	OSP	OSP	OSP	OSP	OSP	OSP/AF	NRP (Partia AF Fundin
SAFSP	SAFSP	SAFSP	SAFSP	SAFSP	SAFSP	OSP/AF	NRP (Partia AF Fundin
AF	AF	AF	OSP	AF	OSP	OSP/AF	(NRP Part AF Funding Optio
AF	AF	AF	SAFSP	AF	SAFSP	OSP/AF	(NRP Part AF Funding Option)
AF	AF	AF	SAFSP	AF	SAFSP	OSP/AF	AF
	Relay Program Management Direction OSP SAFSP AF	Relay Program Program Implemen (RPO Loc OSP OSP OSP SAFSP SAFSP AF AF AF	Relay Program Implementation (RPO Location) OSP OSP OSP OSP SAFSP SAFSP SAFSP AF AF AF AF AF AF AF	Relay Program Management Direction OSP OSP OSP OSP OSP OSP OSP OS	Relay Program Implementation (RPO Location) OSP OSP OSP OSP OSP OSP OSP SAFSP SAFSP SAFSP AF AF AF AF AF AF AF AF AF A	Relay Program Implementation (RPO Location) OSP OSP OSP OSP SAFSP SAFSP AF AF AF AF AF AF AF AF AF A	Relay Program Implementation (RPO Location) OSP OSP OSP OSP OSP OSP OSP OS

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