

INCOMING
NRL SPECIAL PROJECTS CONTROL NUMBER

B106-71

DATE
710707

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ORIGINATOR PME 106	SERIAL NO. BYE-52259-71	ENCLOSURES 0
RECEIVED 710709	COPY NUMBERS 4A	RECEIPT NO. CNM 7-71

SUBJECT
FY 72 FUND FOR PDE W/PRF
SELECTION, RQST RECONSDR

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NRL INCOMING DOCUMENT



B106-71



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BYE-52259-71

NAVY SPACE PROJECT OFFICE, PM-16
WASHINGTON, D.C. 20360

CONTROL SYSTEM

IN REPLY REFER TO
PM-16:RKG
7 July 1971

MEMORANDUM FOR DIRECTOR, NATIONAL RECONNAISSANCE OFFICE

Subj: FY 72 Funding for Enhanced PDE with PRF Selection,
request for reconsideration

Ref: (a) BYE 66449/70, 5 November 1970, Director,
Program C, Letter
(b) BYE 13396/70, 17 December 1970, DNRO Memo
(c) BYE 52236/71, 26 April 1971, Director,
Program C, Letter
(d) BYE 12843/71, 9 June 1971, DNRO Memo

1. Reference (a) proposed development of an enhanced Priority Data Extractor (PDE) with Pulse Repetition Frequency (PRF) selection for the augmentation of POPPY in support of ocean surveillance. This development request for \$185K was deferred from FY 71 funding consideration by reference (b). Reference (c) again requested \$185K for the development of this capability. Reference (d) did not include this amount in the approval of \$388K for ground station electronic systems associated with the POPPY augmentation for ocean surveillance.

2. Funding of this development is considered of paramount importance in the improvement of near real-time processing of the dense radar spectrum of the European/Soviet area of the world. The basic PDE, previously funded, is capable of selecting data from one specific spacecraft collection band and makes it available to the computer for analysis. The development of the enhanced PDE with PRF selection is a quantum improvement to the basic PDE and builds on this basic hardware. It enables certain emitter families within specific spacecraft collection bands to be further sorted to relieve time consuming computer processing.

3. Use of the PRF selection feature will enable the special design characteristics of Mission 7107 to be optimized in the processing of the dense X-band spectrum. This feature, together with the SEL-86 now being procured, will reduce acquired data down to manageable quantities so that time critical information may be expediently processed.

BYE 52259/71
Cy 4 of 5
Pg 1 of 2

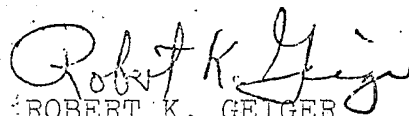
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4. Funding in the amount of \$185K is urged. Funds are required in August 1971 so that development may proceed without delay.



ROBERT K. GEIGER
Captain, USN
Director, Program C.

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DIRNSA
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Dir, NRL

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