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

OFFICE OF THE DIRECTOR

April 17, 1969

MEMORANDUM FOR THE DIRECTOR, SAFSP

SUBJECT: HEXAGON Software Programs

I have reviewed the subject of HEXAGON software and have reached these conclusions:

a. In the interest of simplified management and clear assignment of authority, I approve the procurement of an integrated HEXAGON software package by SAFSP essentially in accordance with your plan (CHARGE 1109). The Director, SAFSP, has full and complete responsibility for on-orbit operation and is responsible for all software used at [redacted] to conduct HEXAGON missions including all command generation and targeting software.

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

b. I am concerned with the reduced time now available for this development. You must, therefore, insure that an operational capability is obtained to be defined such that there is very high confidence of obtaining a fully operational software system for first flight. Improvements to this software package to achieve greater mission optimization should be programmed for later incorporation if necessary. You should provide me with a description of the high confidence initial system as soon as possible.

c. By separate message, I have requested the Director, CIA Reconnaissance, to examine CIA representation on the SSAC/SSEB and to indicate any desires he may have for additional representation. The Director, CIA Reconnaissance, will be prepared to deliver, at your request, briefings and computer program descriptions to the selected contractor to insure full application of relevant prior work. The Director, CIA Reconnaissance, will provide a small staff of personnel



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to support the SPD during software development to insure application of this experience with the CORONA Targeting Program.

d. The SOC will, with the support of CIA/OSP, maintain the historical data base. The SOC, with the support of CIA/OSP, will develop from the CORONA targeting program an early HEXAGON simulation and gaming capability and will use the capability to analyze possible targeting logic and mathematical algorithms for maximizing HEXAGON intelligence collection capabilities. This targeting logic will be analyzed in close cooperation with the SPD.

John L. McLucas
John L. McLucas

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