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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
DIRECTORATE OF REQUIREMENTS

COR NO. 80-2

DATE Sep 26, 1958

~~(S)~~ AN ADDENDUM TO A
COR FOR
A RECONNAISSANCE SATELLITE WEAPON SYSTEM

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VII. OPERATIONAL PERFORMANCE.

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K. Electronic Reconnaissance Subsystem

1. General

a. The electronic reconnaissance subsystem must provide the ability to intercept electromagnetic emissions from potential enemies, to return the intercepted information in a secure manner, to an appropriate location, and to record this information in a form suitable for further processing.

b. Development of the electronic reconnaissance satellite will involve maximum equipment progression, utilizing state-of-the-art equipment without inhibitions of past techniques and custom on intercept, recording, and processing. The most advanced equipment possible must be employed as early in the program as is permissible within operational considerations and equipment availability.

c. Operational Characteristics

a. The electronic reconnaissance subsystem should provide electronic reconnaissance intercept equipment in the band of frequencies between 30 mcs and 40 kmcs in easily substituted modular form. 10 mcs TO 570-KMCS

b. Emphasis will be placed on the interception of new or unusual signals for technical intelligence as opposed to the requirements set forth in Part I of Volume III of the USAF ELINT Objectives and Requirements List, 4 Dec 1957.

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The capability of interception of not only pulse
AM, FM and unusual modulations will be provided.
should be preserved to the greatest extent possible

The system or systems should have the capability
:h deviate from the known. On detection of
should be made for stop-start receiver scan
old and record such signals as long as possible.

It is desired that the direction finding
:s to within five miles. However, this
:grade high order technical collection, nor
Lity.

The system should be developed to allow pro-
t equipments to select areas of interest versus
ncern during any given orbit. This includes
if desired, when the satellite is over areas

A capability of storing intercepted data from
it to facilitate the readout during a later
dout station should be provided.

A system to continually provide calibration data
unications subsystem and to the data processing
ded. This calibration data is necessary for
:t reliable intelligence information possible

:opriate ground support equipment must be
: and calibrate all elements of this subsystem.

JAMES FERGUSON
Major General, USAF
Director of Requirements
DCS, Development