o



Endered The ArevinoLE CONTROL DAY MAY JOINTLY

69

1477



MEMORANDUM FOR THE DEFUTY DIRECTOR, MCL.

Designation of MOL as the KH-10 Photographic Reconneissance SUBJECT: Satellite System

The NRO intends to make formal announcement of the MOL DORIAN system in the TALERT-KETHOLE community, to be designated KH-10. The initial announcement will shert the user community to the capability to be provided by MOL and will include sufficient detail on the camera system to enable the eventual users of MOL photography to plan for submitting their VHR photographic intelligence requirements and for exploiting DORIAN imagery when the system becomes operational.

The NHO will announce the KH-10 to CIA and DIA users. As in the case of previous systems, after initial announcement NPIC will generate a more detailed camera system description containing information which is relevant and necessary from a user viewpoint. MPIC will work closely with whomever you may designate within the Systems Office during generation of the camera manual, and will obtain MOL Program Office concurrence before publishing.

The attached proposed KH-10 system description, which has been discussed informally between Lt Colonel Loret end Colonel Knolle, is being forwarded for Systems Office concurrence and/or comments. As you will note, no distinction between manned and unmanned ME will be made at this time, capability be revealed under nor will the MOL the TK system. It is recognized that the additional information on manad versus unmanned, and copabilities will have to be made known to a broad segment of the user community before operations start.

Please have the technical data reviewed for accuracy and forward any comments or proposed changes to us by March 10, along with identification of the Systems Office point of contact to work together with MPIC in generating the more detailed KH-10 campra system manual.

Lt Col Loret/SAFSL0/55674/14Feb69/ams Copies: SAFSLO

an an Y

SAFSL Chron SCG Rd Gen Berg

JAMES T. STEWART Major General, USAF Vice Director, MOL Program

1 Attachment KR-10 System Description

Page 1 of 1 page Copy 5 of 5 copies BAFEL BYE

ENNELS VIA INTENT-KEYNOLE CHANNELS ONLY

KH-10 System Description

80-187 NM; 70-230 min-max

0.0175 - 0.0615 radians/sec

on axis at 80 NM

9.4 inches diameter, circular

Pitch: 16° forward; 24° aft; Roll: + 37°

90°, 80°-100° min-max

Technical Intelligence

9100' on axis at nadir

7.5 days, nominal

 80° N to 80° S

55° N, nominal

Ross Telephoto

70 inches

0.540

1.08°

4.25 NM/sec

Frame

Mission Data

Orbit: Inclination: Repeating Orbit: Access: Perigee Latitude: Velocity: V/H Range:

Camera System

Primary Purpose: Type: Resolution: Coverage: Stereo Limits: Image Format:

Lens

Type:

Focal Length: Lens Aperture: Relative Aperture: Half Field Angle: Full Field Angle: Mirror Diameter:

Shutter

 Type:
 Focal plane

 Speed:
 40 inches/sec

 Exposure:
 .0025, .0036, .0050, .0070,

 .0100, .0140, .0200, .0400 seconds

 Orientation:
 + 111°

 Platen Rotation:
 + 60°

70 inches (circular)

Page 1_of 2 pages Copy 5 of 5 copies SAFSL BYE

Attachment 1

TOP STORIET

HANDLE VIA TALENT-KEYHOLE CHANNELS O'N L Y

Focus

Automatic: Range: Steps: + 0.002 inches 0.1 inches 50

Primary Film

Width: Type: 9.5 inches 3404 Equivalent Estar Thin Base Exposure Index = 6 Approximately 12,400 frames

Load:

Secondary Film

Width: Type: 9.5 inches
S0 121 (Color)
S0 180 (Infrared)
3401 (Hi-speed Black & White)
3404 Equivalent or Selected Emulsion
600 frames each of 121, 180, 3401
1200 frames of selected emulsion

Load:

Data Available for Exploitation

Complete MCD, to include:

Ephemeris Target Information Scale Information Camera Data Attitude Data Calibration Data Date Block Information (Back Up Only)

> Page 2 of 2 pages Copy 5 of 5 copies SAFSL BYE

NANDLE VIA IMENI-Keyngle Channels D II L Y