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HANDLE VIA BYEMAN
CONTROL SYSTEM

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P 241445Z
BT
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[REDACTED] SPECTRE [REDACTED]
[REDACTED] PASS BISON
[REDACTED] PASS DITTO

[REDACTED] -1769

~~SECRET~~ 241445Z JUL 80 CITE [REDACTED] 1526
PRIORITY [REDACTED] INFO PRIORITY BISON, DITTO, SPECTRE,
BRISK.

HANDLE VIA BYEMAN CHANNELS ONLY
GAMBIT

ATTN: [REDACTED]
[REDACTED] - PAULSON/CRESS

INFO: BISON - [REDACTED]
DITTO - [REDACTED]
SPECTRE - [REDACTED]
BRISK - [REDACTED]

FROM: [REDACTED]
REF: [REDACTED] 0706 A.I. I.D.

SUBJ: RECOMMENDED USES FOR THE FIVE INCH GAMBIT CAMERA.

1. THE REFERENCE REQUESTED [REDACTED] RECOMMENDATIONS FOR
USE OF THE GAMBIT FIVE INCH CAMERA. FOLLOWING ARE (A)
POSSIBLE USES, (B) USES [REDACTED] FEELS WOULD BE MOST
BENEFICIAL AND PRACTICAL BASED ON OUR KNOWLEDGE
OF TASKING REQUIREMENTS, OPERATIONAL CONSTRAINTS AND
PHOTO-INTERPRETER USEABILITY AND, (3) A MENU OF FLIGHT
LOADS THAT WOULD SUPPORT THE RECOMMENDED USES.

2. IN THE FOLLOWING PARAGRAPHS THE TERM "SOLO COVERAGE"
REFERS TO THE ACQUISITION OF A TARGET BY ONLY ONE OF THE
TWO GAMBIT CAMERAS. "COMPANION COVERAGE" REFERS TO THE
ACQUISITION OF A TARGET BY BOTH GAMBIT CAMERAS,
SIMULTANEOUSLY. "SURVEILLANCE" MODE REFERS TO THE
REPEATED ACQUISITION OF SPECIFIC TARGET SITES. "SEARCH"
MODE REFERS TO THE ACQUISITION OF NEARLY CONTIGUOUS
GROUND AREAS FOR THE PURPOSE OF OBSERVING ACTIVITY OVER
LARGE LAND MASSES. "SEARCH" ACQUISITIONS MAY OR MAY
NOT CONTAIN TARGETS IDENTIFIED FOR SURVEILLANCE.

3. POSSIBLE FIVE INCH CAMERA USES:
- A. EXPANDING THE NUMBER OR SURVEILLANCE ACQUISITIONS
 - B. INCREASING THE QUANTITY OF SEARCH COVERAGE
 - C. EXTENDING EXPOSURE LATITUDE
 - D. PROVIDING INCREASED SPECTRAL INFORMATION
 - E. FILM COMPARISON TESTING

4. [REDACTED] RECOMMENDATIONS FOR FIVE INCH CAMERA USE:
- A. AT LOW ALTITUDE THE CAMERA SHOULD BE USED TO
INCREASE THE NUMBER OF ACQUISITIONS AIMED AT SATISFYING

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SURVEILLANCE REQUIREMENTS. THIS PROBABLY WOULD REQUIRE A MODIFICATION OF WEATHER CONSTRAINTS TO MAKE EFFECTIVE USE OF THE ENTIRE FILM LOADS. THIS CAMERA SHOULD BE USED TO SATISFY ALL MISCELLANEOUS REQUIREMENTS FOR COLOR, EXPOSURE LATITUDE EXTENSION AND R&D FILM COMPARISON TESTS. OF THESE, ONLY LATITUDE EXTENSION AND COMPARISON TESTS REQUIRE COMPANION COVERAGE. OCCASIONALLY UNIQUE REQUIREMENTS MIGHT JUSTIFY BOTH BLACK-AND-WHITE AND COLOR COMPANION COVERAGE TO OBTAIN OPTIMUM SPECTRAL AND SPATIAL INFORMATION.

B. AT HIGH ALTITUDE THE MAJOR CONSIDERATION IS QUANTITY OF USEFUL SEARCH IMAGERY. THEREFORE, THE NORMAL MODE OF OPERATION FOR THE FIVE INCH CAMERA SHOULD BE SOLO OPERATION FOR SEARCH. SHOULD THERE BE SURVEILLANCE REQUIREMENTS AT THE HIGHER ALTITUDE, THE FIVE INCH CAMERA (NOT THE NINE INCH CAMERA) SHOULD BE TASKED TO SATISFY THESE NEEDS BECAUSE IT COULD EASILY SATISFY MOST COVERAGE REQUIREMENTS AND WOULD NOT SACRIFICE AS MUCH SEARCH COVERAGE.

S. THE ABOVE RECOMMENDED USES COULD BE SATISFIED BY SOME COMBINATION OF THE FOLLOWING FLIGHT ROLLS:

A. A NINE-INCH ROLL EXCLUSIVELY SO-312. THIS WOULD EFFECTIVELY SATISFY ALL RECOMMENDED USES FOR ALL MISSION OBJECTIVES.

B. A FIVE-INCH ROLL EXCLUSIVELY SO-312.

C. AN SO-312 FLIGHT ROLL WITH SEGMENTS OF SO-130.

D. A TAILORED FIVE-INCH ROLL, DESIGNED FOR UNIQUE MISSION REQUIREMENT E.G. A ROLL INCLUDING QUANTITIES OF SO-409 FOR USE AT VERY HIGH SOLAR ALTITUDES OR A ROLL WITH SECTIONS OF SO-255 TO SATISFY NEEDS FOR MULTI SPECTRAL DATA.

REVW: 24 JUL 2000

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