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HANDLE VIA BYEMAN CONTROL SYSTEM

SECUR/HEXAGON

FOR: B. COYLE/RANDAZZO FM: POWELL/COHEW

SUB: HEXAGON SCOPS

REF: WHIS 1665, 12 DEC 74

1. THE DOCUMENT "MAPPING CAMERAS FOR SHUTTLE" DATED 26 NOV 74 WAS REVIEWED TO DETERMINE WHAT TECHNOLOGY INFO WOULD BE RELEASABLE FOR ITEK USE IN PURSUIT OF STANDARD EARTH OBSERVATION PACKAGE FOR SHUTTLE (SCOPS). THE FOLLOWING TECHNICAL COMMENTS ARE QUOTED FOR YOUR INFO:
A. "THE DOCUMENT PREPARED BY ITEK, "MAPPING CAMERAS FOR SHUTTLE" IS IN OUR OPINION NOT ACCEPTABLE FOR RELEASE TO NON-BYEMAN CLEARED PERSONNEL. OUR OBJECTION HAS TO DO WITH TWO MAJOR AREAS IN THE REPORT, PERFORMANCE CAPABILITIES AND SYSTEM SPECIFICATIONS/DESCRIPTION."

where?
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PAGE 2 CHARGE 9904 **SECRET**

B. "THE PREDICTED METRIC CAMERA SYSTEM CAPABILITIES STATED IN THE REPORT ARE ACTUAL VALUES FROM THE HEXAGON MAPPING CAMERA SYSTEM, AND THE PROPOSED STEREO GEOMETRY IS PRESENTLY IN USE. THESE PREDICTED PERFORMANCE CAPABILITIES ARE NOT BEYOND THE STATE OF THE ART FOR AN AEROSPACE CONTRACTOR. HOWEVER, THE COMBINATION OF ALL THE CAPABILITIES COULD LEAD A KNOWLEDGEABLE READER TO BELIEVE THAT THE PROPOSED SYSTEM IS, IN FACT, AN OPERATIONAL SYSTEM."

C. "ON PAGE 20 OF THE REPORT, IT IS STATED THAT CERTAIN SYSTEM SPECIFICATIONS "...ARE CURRENTLY ACHIEVABLE" LEADING ONE TO BELIEVE THE SYSTEM EXISTS. THE SPECIFICATIONS ARE THOSE FOR THE HEXAGON MAPPING CAMERA. AN INDIVIDUAL SPECIFICATION SUCH AS FOCAL LENGTH OR RELATIVE APERTURE IS NOT A HEXAGON PECULIAR SPECIFICATION. IT IS THE SUM OF THE SPECIFICATIONS THAT IS OF CONCERN. THE PHOTOGRAPHS AND SKETCH SHOWN ON PAGES 43 THROUGH 51 ARE OF HEXAGON FLIGHT HARDWARE. THIS IS ENTIRELY TOO GRAPHIC AND IS NOT ACCEPTABLE FOR PUBLICATION."

D. "THE MAPPING CAMERAS FOR SHUTTLE DOCUMENT VERY ACCURATELY DESCRIBES THE HEXAGON MAPPING CAMERA. ITEK MUST MAKE AN EFFORT TO ELIMINATE THE ACTUAL SPECIFICATIONS AND PERFORMANCE CAPABILITIES THAT PERTAIN TO HEXAGON BEFORE THIS REPORT CAN BE RELEASED TO NASA."

2. WE AGREE WITH THE TECHNICAL COMMENTS QUOTED ABOVE. RELEASE OF THE

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ITEK DOCUMENT TO NASA IN ITS PRESENT FORM COULD COMPROMISE HEXAGON SECURITY. IF A FIRM REQUIREMENT EXISTS TO MAP THE UNITED STATES BY SATELLITE, SUGGEST A HEXAGON VEHICLE BE PROGRAMMED TO SATISFY THIS REQUIREMENT. THIS WOULD SAVE MONEY AND REDUCE THE NEGATIVE IMPACT TO SECURITY.

END IMPDET

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