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TOPS E CART 3017 15Z APR 71 CITE CHARGE 2544.

IMMEDIATE (HICA 10662/GAMBITA

HEXAGON/ZAMAN

FOR DR. MC LUCAS FROM GEN ALLEN

SUBJECT: INTERIM SYSTEM FILM READOUT GAMBIT STATUS. REFERENCE: WHIG \$531 AND CHARGE 25\$7.

1. A STATUS REPORT ON ACTIONS TAKEN TO DATE AND OUR PHILOSOPHY OF MANAGEMENT TO IMPLEMENT THE GAMBIT FILM READOUT SYSTEM FOLLOWS:

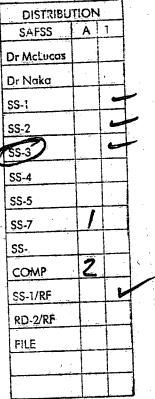
2. CONTRACTS WERE INITIATED WITH LMSC AND EKC ON 28 APR 71 FOR THE DEFINITION PHASE OF THE READOUT SYSTEM MAXIMUM COST FOR THESE TWO CONTRACTS IS A COMPETITIVE DEFINITION PHASE FOR THE

SYSTEM SOFTWARE IS IN PROCESS. COSTS FOR THIS EFFORT WILL NOT EXCEED

(b)(1)

(b)(3) 10 USC ¹ 424

PAGE 2 CHARGE 2544 TOPSECRET 3. DEVELOPMENT CONTRACT PROPOSALS WILL BE AVAILABLE ON 1 JUL 71 AND WILL BE BASED ON FIRM QUOTES FOR WELL DEFINED HARDWARE AND "NOT TO EXCEED" PROPOSALS FOR LESS TELL DEFINED HARDWARE (SUCH AS THE COMMAND SYSTEM). APPROPRIATE COSTS FOR PARALLEL DESIGN APPROACHES WILL ALSO BE INCLUDED WHERE SUCH AN APPROACH IS JUSTIFIED. WE SHOULD BE PREPARED TO REPORT TO YOU ON THE FIRM COSTS BY 9 JUL 71. WE WILL MAKE EVERY EFFORT TO PULL THIS DATE UP, TO 1 JUL PER YOUR REQUEST. ON GO-AHEAD, I THEN PLAM TO ISSUE LETTER COMTRACTS CALLING FOR FIRST FLIGHT 30 MONTHS HENCE. AT THE PRESENT TIME OUR SYSTEM DEFINITION COSTS ARE BEING PRICED BY THE CONTRACTOR BASED ON A 4 TO 6 VEHICLE BUY. FIRM PLANNING GUIDANCE FROM NRO WITH RESPECT TO FORCE MIX BY FISCAL YEAR FOR GAMBIT, HEXAGON, AND THE READOUT SYSTEM WILL ENABLE US TO SECURE MORE REALISTIC COST ESTIMATES BY FISCAL YEAR FROM THE CONTRACTOR. 4. I PLAN TO PLACE RESPONSIBILITY FOR THE DEVELOPMENT AND ACQUISITION FOR THE INTERIM SYSTEM IN THE GAMBIT SPO(SP-14). SP-6 WILL RETAIN RESPONSIBILITY FOR THE





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PAGE 3 CHARGE 2544 T O P S E INITIATION OF THE DEFINITION PHASE AND AN ORDERLY TRANSFER FROM SP-6 TO SP-14 IS PLANNED PRIOR TO 1 JUL 71. CONTRACTOR RESPONSIBILITIES WILL VARY ONLY SLIGHTLY FROM GAMBIT. EKC HAS BEEN ASSIGNED RESPONSIBILITY FOR THE ENTIRE IMAGING CHAIN FROM ENTRANCE PUPIL TO RËPROCUCED PHOTOGRAPH ON THE GRÖUND. ÆMIS ASSIGNMENT RESULTS IN A SUBCONTRACT REQUIREMENT FOR THE DATA LINK FOR THICH EKO HAS SELECTED PADIATION, INC. THE LASER SCAMMER SUBSYSTEM SUBCONTRACTOR WILL NOT BE SELECTED UNTIL SUFFICIENT PROGRESS HAS BEEN MADE MITH THE CURRENT PARALLEL DEMONSTRATION EFFORT. HOWEVER. I HAVE INFORMED EXC THAT THEY WILL MAKE THIS SELECTION BASED ON COST, SCHEDULE AND PERFORMANCE CONSIDERATIONS AND THAT, BEYOND NORMAL REVIEW AND CONSENT RESPONSIBILITIES, I DO NOT ANTICIPATE INTERFERRING WITH THEIR COMPETITIVE SELECTION. LMSC HAS BEEN ASSIGNED RESPONSIBILITY FOR THE ENTIRE CRBITAL CONTROL VEHICLE TO INCLUDE THE COMMAND SYSTEM WHICH IS GFE ON GAMBIT. LMSC WILL PERFORM IN A SYSTÉMS INTEGRATION ROLE TO BE SPECIFICALLY DEFINED DURING THE DEFINITION PHASE.

> (b)(1) (b)(3) 10 USC \(^1\) 424

PAGE 4 CHARGE 2544 TOPSECRET

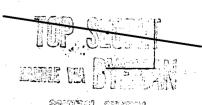
THIS CONTRACT ARRANGEMENT SHOULD FACILITATE EFFECTIVE
INCENTIVE AGREEMENTS AND PROVIDE A RELATIVELY SIMPLE
MANAGEMENT STRUCTURE. THE SUBCONTRACT STRUCTURE
WILL BE REVIEWED BEFORE PROCEEDING WITH ACQUISITION.
6.AT PRESENT, I DO NOT PLAN TO INCLUDE ATTACK REPORTER
SYSTEM OR VULNERABILITY MEASURES IN THE INITIAL DEVELOPMENT. WE WILL CONSIDER INTERFACE PROVISIONS AND A
WEIGHT ALLOCATION SHICH WOULD BE TRADED AGAINST
EXPENDABLES. WE CAN RELY ON

AFTER NOTING RESPONSE FROM THE HEXAGON INSTALLATION.

7. I ALSO HAVE DIRECTED AN INVESTIGATION OF DATA LINK PRIVACY. THE APPROACH HERE IS TO PROVIDE DELTA COSTS FOR SEVERAL OPTIONS OF VARYING COMPLEXITY. THESE OPTIONS INCLUDE HIGH SAIN ANTENNAS, MOVING THE GROUND STATION INLAND, AND ENCRYPTION. THESE DELTA COSTS WILL BE INCLUDED IN THE 1 JUL SUBMISSIONS. I FEEL, HOWEVER, THAT CAREFUL CONSIDERATION SHOULD BE GIVEN TO THE FOLLOWING CONCEPT: IN AN INTERIM SYSTEM WITH EMPHASIS ON CRISIS CAPABILITY, IT COULD BE ACCEPTED THAT THE

PAGE 5 CHARGE 2544 TOPSECRET

U.S. MAY WISH TO USE THE PRODUCT IN A BI-LATERAL
DISCUSSION. THIS PRODUCT WOULD NOT BE SPECIFICALLY
REVEALING OF THE CAPABILITIES OF GAMBIT RECOVERY,
HEXAGON OR ZAMAN. THEREFORE, IT SHOULD BE ACCEPTABLE
TO RELAX THE CONCERN ABOUT DOWNLINK PRIVACY AND STAY



CONTROL SYSTEM

THE SIMPLE PLAN WE INITIALLY PROPOSED.

3. THE SECURITY POLICY AFFECTING THIS INTERIM SYSTEM FOR THE MEAR TERM IS CONTAINED IN CHARGE 2507. MY PRESENT CONVICTION IS THAT THE PROGRAM FOLLOWING ACCUSATION GO-AHEAD CAN BE ADEQUATELY PROTECTED UNBER THE CANBIT CAVEAT. SOME SUB-COMPARTMENTATION WILL DE NEEDED AND SPECIAL CONSIDERATION OF SECURITY AT THE GROUND STATION BUT I DO NOT RECOMMEND A NEW CODEWORD.

9. IN SUPPARY, I FULLY INTEND TO INITIATE, DEVELOP, AND FLY THIS INTERIM READOUT SYSTEM IN 36 MONTHS AFTER GO-AHEAD, AND TO MANAGE IT WITH FIRM COST-CONSCIENTIOUS-NESS, SCHEDULE, AND PERFORMANCE CONSIDERATIONS.

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