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CONTROL SYSTEM~~(S)~~ NATIONAL RECONNAISSANCE OFFICE

WASHINGTON, D.C.



THE NRO STAFF

21 November 1974

MEMORANDUM FOR COLONEL WHEELER *Wheeler*SUBJECT: Possible Conflicts Between the DMA Geopac and
HEXAGON Pallet ExperimentsREFERENCE: A. CHARGE 8921, 18 Nov 74
B. WHIG 1028, 9 Aug 74
C. CHARGE 6524, 14 Aug 74

Reference A raises the question of possible conflicts between the DMA geopac and possible SP pallet experiments. References B and C are the discussion of this subject prior to pallet and geopac approval. The reference A message would not require a reply, except for the possibility of SP proceeding with a conflicting experiment under the misconception that Gen Bradburn could decide which would fly. This could lead to a flap which can be avoided by getting a DNRO adjudication before the fact. In the event a more important payload was approved which would bump the geopac, I see no way that DMA would accept a decision below the DNRO level.

Recommend release of the message at the right.

Daniel B. Hutchison
DANIEL B. HUTCHISON
Lt Colonel, USAFGAMBIT
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CONTROL SYSTEMCLASSIFIED BY BYEMAN - 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11552 EXEMPTION CATE-
GORY 5B2 DECLASSIFY ON IMP DET.~~TOP SECRET~~CONTROL NO Internal
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PAGE 1 OF 1 PAGES

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Felchman
Rand
Hutchinson (ACTION)
Dan

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~~TOP SECRET~~ 161700Z NOV 74 CITE CHARGE 8921

ROUTINE WHIG INFO ETHER
HANDLE VIA BYEMAN CONTROL SYSTEM
HEXAGON VEARPO

FOR: WHEELER INFO: ETHER FROM: G. BRADBURN

SUBJECT: HEXAGON EXPERIMENT PALLET

REFERENCE: WHIG 1415, ETHER 0546

1. WE WILL BE ABLE TO PROVIDE THE COST AND MILESTONE INFORMATION REQUESTED BY 29 NOV 74 AFTER OBTAINING INPUTS FROM LMSC.

2. THE REFERENCED MESSAGE INDICATES THAT THE DMA SPONSORED GEOMETRIC PACKAGE EXPERIMENT (GEOPAC) IS BEING CONSIDERED AS A PALLET LOAD FOR EVERY HEXAGON VEHICLE IN BLOCK III. USE OF A MAJOR PART OF THE PALLET CAPABILITY FOR A SINGLE EXPERIMENT WAS NOT OUR ORIGINAL INTENT WHEN DEVELOPING THE PALLET CAPABILITY. RATHER, OUR INTENT WAS TO

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PAGE TWO CHARGE 8921 ~~TOP SECRET~~

PROVIDE A CAPABILITY TO FACILITATE MANY DIFFERENT EXPERIMENTS AT LOW COST AND MINIMUM INTERFERENCE WITH THE HEXAGON PROGRAM.

3. SEVERAL OTHER EXPERIMENTS ARE CANDIDATES FOR THE PALLET. SOME OF THESE MAY BE MORE IMPORTANT THAN THE GEOPAC EXPERIMENT. FOR

[REDACTED]

THEREFORE, IT IS MY INTENTION TO CONSIDER GEOPAC AS A CANDIDATE EXPERIMENT FOR VEHICLES 13 AND BEYOND. IT WILL BE EVALUATED ON ITS MERITS IN COMPETITION WITH OTHER CANDIDATES. I HAVE MADE SP-6 RESPONSIBLE FOR EVALUATING ALL CANDIDATE EXPERIMENTS. SP-6 WILL RECOMMEND TO ME WHICH EXPERIMENTS ARE TO BE FLOWN AND IN WHAT ORDER. COL R. JACOBSON WILL BE THE CONTACT IN SP-6 FOR THESE MATTERS.

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Return to Hutchison

SR

SWA254-ER

AA 7365/9

*SP-7 wants to make
sure the Pallet doesn't
take money away
from Hexagon.*

~~SECRET~~ 091529Z AUG 74 CITE WHIG 1028.

PRIORITY CHARGE.

HEXAGON

FOR ANDERSON [] JACOBSON [] FROM HUTCHISON.

SUBJECT: HEXAGON PALLET

REFERENCE A. CHARGE 0324, 062330Z AUG 74

B. WHIG 0706

IN ORDER TO ADDRESS THE QUESTION RAISED IN REF. ONE, REQUEST YOU ANSWER THE FOLLOWING QUESTIONS.

1. IF THE GFE GEODETIC PACKAGE WERE AVAILABLE IN DECEMBER 1975, WOULD IT BE ABLE TO FLY ON 1213 FOR THE CURRENT SCHEDULE? WOULD PALLETIZING OR NOT MAKE A DIFFERENCE WHETHER OR NOT IT COULD FLY ON 1213?
2. WOULD THE OTHER PALLETIZED EXPERIMENTS BE COMPATIBLE WITH THE GEODETIC PACKAGE AND P-11 PAYLOADS?
3. WOULD THE GEODETIC PACKAGE INTEGRATION COSTS CHANGE IF THE

PAGE 2 WHIG 1028 ~~SECRET~~

EFFECTIVITY OF THE PACKAGE WERE CHANGED TO 1213 THROUGH 1216 OR 1213 THROUGH 1218 INSTEAD OF 1214 THROUGH 1216?

4. WHAT ARE THE DETAILS OF THE COST DIFFERENCE BETWEEN GEODETIC PACKAGE INTEGRATION WITH AND WITHOUT THE PALLET; I.E., WHY DO WE ONLY SAVE DMA \$0.470M IN GOING FROM A NON-PALLETED TO A PALLETED CONFIGURATION?

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*MADE IN RUSSIA
CENTRAL SPICE*

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AA-7509

PRIORITY WHIG

HEXAGON

FOR [REDACTED] LT COL HUTCHISON FROM COL JACOBSON/ COL

ANDERSON, I T COL HOFMANN

SUBJECT: HEXAGON PALLET

REFERENCE: WHIG 1028

1. THE FOLLOWING ANSWERS ARE PROVIDED TO QUESTIONS POSED
IN REFERENCED MESSAGE.

A. REFERENCE QUESTION 1.

IF THE GEO-PAC EXPERIMENT PACKAGE IS AVAILABLE IN DECEMBER OF 1975 IT CAN BE FLOWN ON SV-13 ONLY IF THERE IS A PALLET ON THAT VEHICLE. WITHOUT A PALLET, THE GEO-PAC MUST BE INTEGRATED INTO THE AFT EQUIPMENT MODULE OF THE BASIC VEHICLE EARLY ENOUGH TO GO THROUGH THERMAL VACUUM AND ACOUSTIC TEST WITH THE SV. ACCORDINGLY, OUR SCHEDULE PRECLUDES THE INTEGRATION OF GEO-PAC DIRECTLY ONTO SV-13. IN FACT, THE CONTRACTOR IS REQUESTING

PAGE 2 CHARGE 6254 ~~TOP SECRET~~
GEO-PAC GO AHEAD NLT 15 SEP 1974 TO MEET SCHEDULES FOR
SV-14 AND SUBSEQUENT.

B. REFERENCE QUESTION 2.

OTHER PALLETIZED EXPERIMENTS WOULD BE COMPATIBLE WITH THE GEODETIC PACKAGE AND P-11 PAYLOADS WITH CERTAIN RESTRICTIONS. FOR EXAMPLE, THE SPREAD SPECTRUM EXPERIMENT COULD BE CARRIED ON A PALLET WITH THE GEO-PAC. POWER CONSIDERATIONS WOULD PRECLUDE SIMULTANEOUS OPERATION OF BOTH PACKAGES, BUT A TIME SHARING PLAN WOULD ALLOW SATISFACTION OF BOTH OBJECTIVES. ALSO, A POTENTIAL PROBLEM COULD EXIST WITH AVAILABILITY OF COMMANDS. HOWEVER, THIS DIFFICULTY CAN BE OVERCOME WITH SOME INCREASE IN EXPERIMENT COSTS.

C. REFERENCE QUESTION 3.

NON-RECURRING COSTS AND PER VEHICLE/RECURRING
INTEGRATION COSTS ARE HIGHER WITHOUT THE PALLET, BUT DO
NOT VARY WITH THE NUMBER OF UNITS FLOWN.

D. REFERENCE QUESTION 4.

THE DETAILS OF THE COST DIFFERENCE FOR INTEGRATION BY FISCAL YEAR ARE SHOWN BELOW FOR THREE FLIGHT GEO-PAC PROGRAM.

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	FY 75	FY 76	FY 77	FY 78	TOTAL
WITHOUT PALLET	.250	1.000	.250	.080	1.580
WITH PALLET	.150	.750	.150	.050	1.100

WE ANTICIPATE RECEIPT OF A DEFINITIZED ECP FOR A THREE FLIGHT GEO-PAC PROGRAM NLT 6 SEP 74. COSTS WILL BE QUOTED BOTH WITH AND WITHOUT PALLET. THE COST DIFFERENCE IS NOT GREATER BETWEEN INTEGRATION WITH AND WITHOUT THE PALLET FOR THE FOLLOWING REASONS:

- (1) MESA ACCELEROMETERS ARE NOT PHYSICALLY LOCATED ON THE PALLET.
- (2) EXPERIMENTERS MUST PROVIDE OWN TAPE RECORDERS AS STUDIES HAVE SHOWN NO SINGLE TAPE RECORDER COULD SATISFY ALL POSSIBLE CANDIDATE EXPERIEMENTS.
- (3) THERMAL ENVIRONMENT REQUIRES INVESTIGATION AND CONTROL FOR EACH CANDIDATE EXPERIMENT. ACTIVE THERMAL CONTRL WAS CONSIDERED AND REJECTED AS MAKING THE PALLET PECULIAR COSTS UNACCEPTABLY HIGH.
- (4) COSTS ARE RECOGNIZED FOR INTEGRATION OF EXPERIMENTS TO PALLETS, TESTING AND INSTALLATION ON HOST VEHICLE. EFFORTS ARE BEING MADE TO FURTHER REDUCE THESE INTEGRATION COSTS.

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2. THE COST BREAKDOWNS PROVIDED IN OUR CHARGE 6024 ARE A BUDGET UPDATE TO THE ORIGINAL PALLET OPTION THAT HAS BEEN PENDING APPROVAL SINCE OUR APRIL BUDGET SUBMISSION. FUNDS REQUESTED IN CHARGE 6024 FOR FY 75 AND OUT YEARS ARE IN ADDITION TO APPROVED PROGRAM DIRECTION FOR HEXAGON. FUNDS ARE NOT AVAILABLE WITHIN THE HEXAGON PROGRAM TO FINANCE PALLET DEVELOPMENT.

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