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A. alder
Hutchison
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PRIORITY WHIG.

HEXAGON

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

DISTRIBUTION		
ALTS	A	L
COMS		
DE		
ESA		
ESD		X
ESF		
ESR		
ESV		
ESP		
SCF	X	
COMP	X	
TRAF		X
WAT		
FILE		

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 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 EXPERI-
 MENT 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 CONTROL 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.

E-2 IMPDET

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