

NASA - DEFEN PURCHASE REQUEST

PAGE 1 OF 1 PAGES
4. AMENDMENT NUMBER
2

2. DATE **JAN 7 1971** 3. REQUEST NUMBER
W-13,105

5. TO:
Office of the Secretary of the Air Force
Washington, D. C. 20330
Attention: Colonel William R. Yost
Code SAFSS

6. FROM: (Agency; Name; Telephone number, of originator)
National Aeronautics and Space Administration
Headquarters Contracts Division
Code DHC-4/D. A. Douvarjo
Washington, D. C. 20546

7. ITEM DESCRIPTION

ITEM NO. <i>a</i>	DESCRIPTION OF SUPPLIES OR SERVICES (Federal Stock Number, Nomenclature, Specification and/or Drawing No.; etc.) <i>b</i>	QUANTITY <i>c</i>	UNIT <i>d</i>	ESTIMATED UNIT PRICE <i>e</i>	ESTIMATED TOTAL PRICE <i>f</i>
	<p>Transfer funds to the Office of the Secretary of the Air Force in order to cover closeout costs, including storage and shipping of those items requested as part of those services provided by the Air Force in the conduct of studies in accordance with classified agreement Reference: 57x3600-280-6045-P-6399, \$659900.</p> <p>All work to be performed under this Delivery Order shall commence as of the effective date of same.</p> <p>It is requested that formal acceptance of this Delivery Order be acknowledged by signing and returning two copies of same within ten days of receipt to the address listed in Block 6, above.</p> <p>Acceptance acknowledged.</p> <p><i>Frederick L. Hofmann</i> FREDERICK L. HOFMANN Major, USAF, SAFSS, January 12, 1971</p>				\$61,500.00

8. SEE ATTACHED PAGES FOR DELIVERY SCHEDULES, PRESERVATION AND PACKAGING, SHIPPING, DISPOSITION OF PROPERTY, AND SPECIAL INSTRUCTIONS.

9. GRAND TOTAL
\$61,500.00

10. THIS REQUEST IS IS NOT SUBJECT TO SECTION 305 OF THE NATIONAL AERONAUTICS AND SPACE ACT OF 1958.
(See special instructions on reverse side.)

11. MAIL SF 1080 BILLINGS TO
NASA Headquarters
Financial Management Division, Code BFH
Washington, D. C. 20546

12. NASA APPROPRIATION SYMBOL
PR 10-9797
R&D 80X0108(71)
188-78-51-12-10

13. AUTHORIZING OFFICER (Type Name and Title)
E. W. Quintrell, Contracting Officer

14. SIGNATURE
E. W. Quintrell

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BYE-89542-70

cy 1, 1 sheet

XXXXX item 1



WORKING COPY

FUNDING STATUS (\$0002)

	<u>CONTRACTOR</u>	<u>GOVERNMENT</u>
TOTAL FORECAST	\$1,352,102	\$1,337,435
LESS FUNDS OBLIGATED AS OF 10 JUNE 1969	<u>1,234,572</u>	<u>1,234,572</u>
BALANCE OF FUNDS REQUIRED	117,529	102,856
PLUS MISC REQTS (ATTACHMENT)	<u>653</u>	<u>653</u>
NET FUNDS REQUIRED	118,176	103,509
FUNDS AVAILABLE		
FRIG YEARS	\$2,609	
FY70 AUTHORIZED	<u>125,000</u>	<u>127,609</u>
ESTIMATED DIFFERENCE + (-)	(9,433)	(24,100)

PREVIOUS BRIEFING TOTALS		
JUNE 1969 TOTAL	\$139,000	\$127,600
DEC 1969 BRIEFING TOTAL	127,600	106,000
APR 1969 BRIEFING TOTAL	124,100	106,300

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TOTAL MOL PROGRAM FUNDING REQUIREMENT FORECAST
(THOUSANDS OF DOLLARS)

<u>CONTRACTOR NAME</u>	<u>PER CONTRACTOR</u>	<u>PER GOVERNMENT</u>	<u>DIFFERENCE</u>
MDAC-WD	W \$443,081	\$439,371	\$3,710
	B 10,141	9,813	328
GE	W 106,445	106,445	-
	B 135,458	135,458	-
MDAC-ED	110,700	110,700	-
ENC	102,055	98,090	3,965
ACED	19,676	19,676	-
AGC	43,156	42,292	864
UTC	<u>57,900</u>	<u>52,100</u>	<u>5,800</u>
Sub Total	1,028,612	1,013,945	14,667
<u>Settlements Completed</u>			
EK	320,865	320,865	-
TRW	W 1,251	1,251	-
	B <u>1,374</u>	<u>1,374</u>	-
Total	\$1,352,102	\$1,337,435	\$14,667

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• INVENTORY DISPOSITION

• SETTLEMENT MILESTONES

• CONTRACTOR MANPOWER

• FUNDING

• CONTINUING FUNCTIONS

MAJOR SUBSYSTEM DISPOSITION

<u>AS OF DATE</u>	<u>CUMULATIVE \$ VALUE (MILLIONS)</u>	<u>% DISPOSITIONED</u>
10 JUNE 1969	-	-
9 DECEMBER 1969	9.	7%
14 APRIL 1970	75.	57%
16 JULY 1970	121.	93%
SEPTEMBER 1970 (TARGET)	130.	100%

11/1/65

<u>MODEL</u>	<u>QUANTITY</u>	<u>ADPE</u>	<u>DISPOSITION</u>	<u>VALUE</u>
MDAC-WD				
SDS - 9300	4		DSA	2,580,483
IBM - 360-30	3		DSA	430,000
FOUR PI (IBM)	1		DSA	190,000
IBM 360-65	1		NASA (WITH SIMULATOR)	-
GE				
FOUR PI	3		DSA (1 ea.) NASA (2 ea.) (MISSION SIMULATOR)	190,000
SDS 9300	3		ARMY (2 ea.) (WITH CITE B & C) AFOSR (1 ea.) (WITH CITE A)	-
TR - 48	2		DSA (1 ea.) NASA (1 ea.) (MISSION SIMULATOR)	28,000
IBM 360-44	1		NASA (1 ea.) (MISSION SIMULATOR)	-
BECKMAN 2200	1		NASA (1 ea.) (MISSION SIMULATOR)	-
SDS 930	1		NASA (1 ea.) (MISSION SIMULATOR)	-
MARTIN				
SIGMA 7	4		DSA (2 ea.) WTR (2 ea.) (WITH CAGE)	1,500,000
MDAC-ED				
HONEYWELL 324	1		DSA	424,000
			TOTAL	\$5,342,483

SUBSYSTEM DISPOSITION

<u>ITEM</u>	<u>DISPOSITION</u>	<u>STATUS</u>	<u>\$ VALUE</u>
FEEDING SYSTEM (Whirlpool)	TRANSFER TO NASA	COMPLETE	280,000
WASTE MANAGEMENT (MDAC-WD)	TRANSFER TO NASA	COMPLETE	382,000
LAB MODULE SIMULATOR (MDAC-WD)	TRANSFER TO NASA	COMPLETE	8,000,000
DATA DISPLAY SUBSYSTEM (MDAC-WD)	TRANSFER TO NASA	COMPLETE	436,000
FOUR PI WORK IN PROCESS (MDAC-WD) (IBM)	TRANSFER TO NASA & SAMSO	COMPLETE	819,000
TRANSPONDERS & TEST SETS (MDAC-WD) (TRW)	TRANSFER TO SAMSO	COMPLETE	1,405,500
PRESSURE SUITS (MDAC-WD - VAFB - HNSID)	TRANSFER TO NASA	COMPLETE	1,417,000
THRUSTERS (22 lb & 100 lb) (MDAC-WD) (MARQUARDT)	TRANSFER TO AFRPL/ SAMSO & NASA	COMPLETE	369,000
FUEL CELL (MDAC-WD)	NASA & AF	COMPLETE	200,000
SHACER SYSTEM (GE)	TRANSFER TO SAMSO (MINUTEMAN)	COMPLETE	249,896
STD CITE 400A (GE)	APOSR (FIA ST UNIV)	COMPLETE	1,962,000
MISSION DEVELOPMENT SIMULATOR & ALPHA (GE)	NASA (APPROVED 12 JUNE 70)	(IN PROCESS)	9,000,000

#8

SUBSYSTEM DISPOSITION (CON'T)

<u>ITEM</u>	<u>DISPOSITION</u>	<u>STATUS</u>	<u>\$ VALUE</u>
STD CITE B & C (CE)	U.S. ARMY, REDSTONE	COMPLETE	2,000,000
EM/ECU (CE)	NASA, HUNTSVILLE	COMPLETE	656,686
TRANSPORTER (CE)	NASA, HUNTSVILLE	COMPLETE	160,000
FLIGHT HARDWARE AVE (MDAC-ED)	NASA (AIRLOCK)	COMPLETE	1,900,000
AGE GEMINI (MDAC-ED)	NASA (FACILITIES CONTR)	COMPLETE	13,700,000
CAGE (MARTIN)	TRANSFER TO WTR	COMPLETE	1,884,000
STAR TRACKER, WORK IN PROCESS (CE)	TRANSFER TO NASA	COMPLETE	380,000
BETA SYSTEM	APOSR (WEAFB)	COMPLETE	3,919,078
<u>OTHER SIGNIFICANT ACTIONS</u>			
GEMINI SPACE CRAFT & STRUCTURES	SMITHSONIAN		42,845,707
TITAN III INVENTORY	TIII SPO (SAMSO)		13.4 - MARTIN 11. - AEROJET 2.5 - UTC 2.8 - ACE

Handwritten notes:
11-21

MISSION DEVELOPMENT SIMULATOR & ALPHA

SAFSL ADVISED TO HOLD DISPOSITION PENDING AF/NASA STUDY - OCTOBER 1969

DECISION TO TRANSFER TO NASA REACHED - APRIL 1970

AF/NASA AGREEMENT DEVELOPED AND APPROVED - 12 JUNE 1970

CONTRACTOR ADVISED TO PROCEED WITH TRANSFER ACTIONS - 12 JUNE 1970

ACTION

SCHEDULE

DEVELOP TRANSFER PROCEDURES FOR SO APPROVAL:

SIMULATOR

JULY

ALPHA

JULY

VENDOR INVENTORY

JULY

DOCUMENTATION

JULY

PRESENT DOCUMENTATION TO AF FOR APPROVAL

SEPTEMBER 1970

COMPLETE HARDWARE/SOFTWARE TRANSFER TO NASA

SEPTEMBER 1970 IN PROCESS NOW
WE VISITED G.E. 15-16-17 SEPT.
SHOULD BE COMPLETE BY 1 OCT. *not used*

8-2

SEPT 1970 FORECAST COMPLETION DATES

<u>UTC</u>	<u>AGC</u>	<u>ACE</u>	<u>MCC</u>	<u>MDAC</u> <u>ED</u>	<u>MDAC</u> <u>VD</u>	<u>CE</u>	<u>H-S</u>
DEC 70	JUN 70	AUG 70	SEP 70	FEB 71	SEP 70	NOV 70	JUL 70
DEC 70	JAN 70	MAR 71	OCT 70	JUN 71	FEB 71	JAN 71	MAY 70
JAN 71	MAR 70	JUN 71	FEB 70	AUG 71	MAR 71	FEB 71	MAY 70
APR 71	DEC 70	OCT 71	DEC 70	OCT 71	MAY 71	APR 71	SEP 70
JUL 71	MAR 71	DEC 71	FEB 71	NOV 71	AUG 71	JUN 71	NOV 70

COMPL OF PLANT CLEARANCE
(PRIME, SUBS & VENDORS)

FINAL SETTLEMENT
SUBS/VENDORS CLAIMS

SUBMITTAL OF FINAL
TERMINATION CLAIMS

COMPLETION OF FINAL
SETTLEMENT NEGOTIATIONS

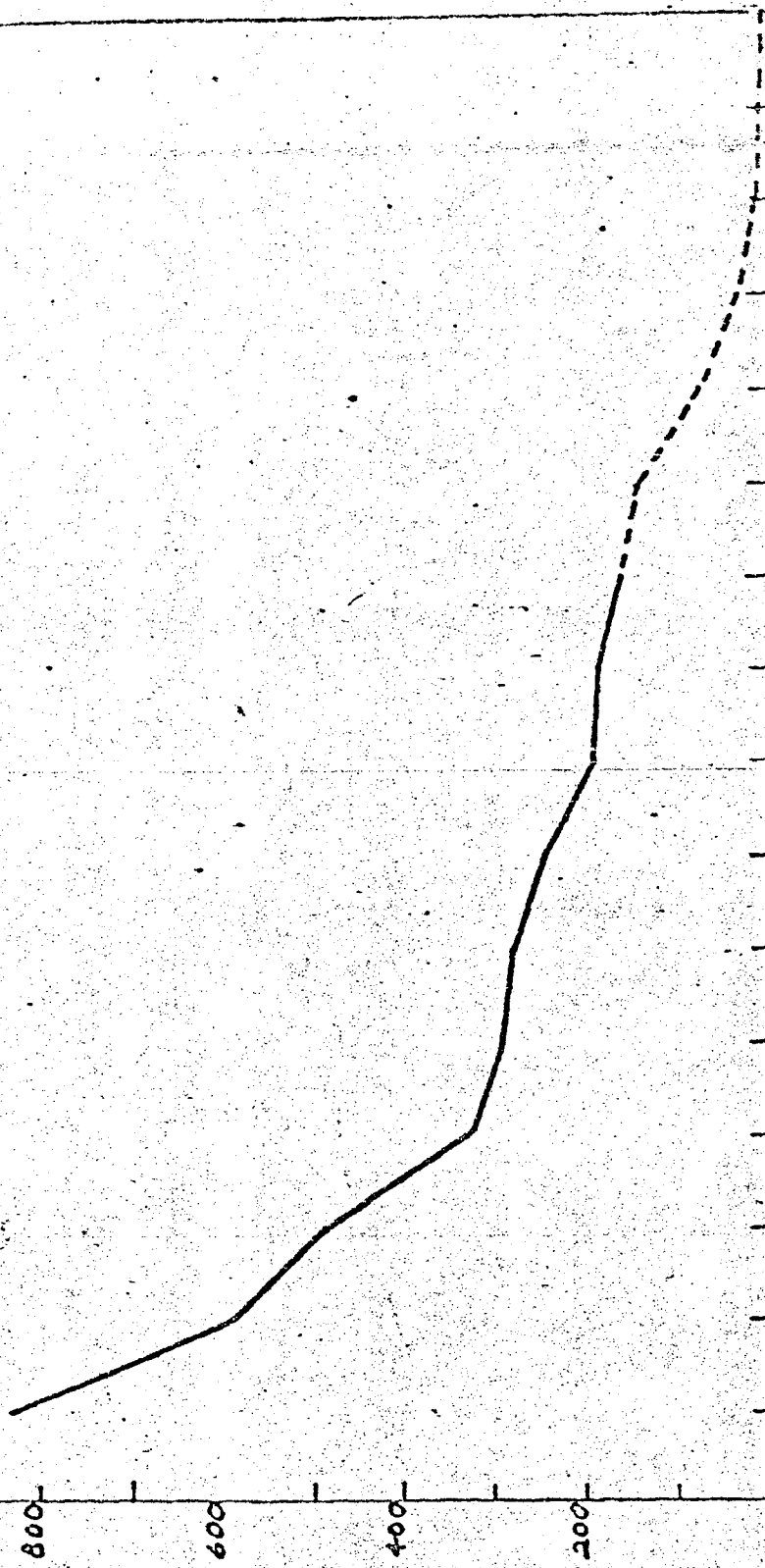
EXECUTION AND DISTRIBUTION
OF FINAL S/A

MANPOWER EXPENDED & FORECAST

JUNE 10, 69

11,235

EXPENDITURE



	S	O	N	D	J	F	M	A	M	J	S	D	J	S	D
MDAC-WD	281	205	188	132	122	122	103	65	65	65	65	65			
G.E.		304	185	162	98	82	63	54	47	47	40	39			
MDACED	95	66	65	50	49	54	47	46	44	39					
MARTIN	125	117	60	37	32	31	31	24	23	16					
ACC/ACE/VE	16	8	7	11	7	8	8	7	6	5					
H.M. STD.	8	5	3	3	1	2	2	3	6	3					
T.R.W.	2	2													
TOT. M/M	832	588	485	331	293	280	245	193	191	168					

MOL SO PERSONNEL

10 JUNE 1969 - 264

1 DEC 1969 - 23

10 APR 1970 - 8

2 SEPT 1970 - 5

CONTINUING FUNCTIONS

1. FUNDING
2. INVENTORY
3. REPORTS
4. SETTLEMENT REVIEW BOARD
5. STAFF
6. CONTRACT RETIREMENT
7. ASSISTANCE TO TOCs
8. STATUS REVIEW



SETTLEMENT REVIEW BOARD ACTIONS
(FORECAST)

2 - GE SUBCONTRACTS

1 - OCTOBER 1970

1 - NOVEMBER 1970

2 - PRIME CONTRACTS

GE - MAY 1971

ACAC-WD - JULY 1971

not used

CHARTS # 6 - 7 - 8 & 8.1

ADPE & SUBSYSTEM REUTILIZATION

Perhaps a quick run through these charts will provide you with insight into the types of equipment involved.

First we have ADPE (Computers and Peripheral equipment) which, of course, have generated considerable interest through-out DOD and NASA - with the exception of those associated with System Reutilization, all have been reported to DSA and are being redistributed to various DOD agencies.

NOTE: 1 SSS 1500 COMPUTER BEING RETURNED TO AF FROM ARPA - (PART OF CITE)
Dollar value is generally acquisition value and in the case of T-III contractors,

the values shown is the value of T-III equipment identified as usable on other

T-III programs. The credit to receiving contracts will, of course be considerably less - credit values are in proposals to T-III Program Office

(i.e., Martin is proposing \$1.7M credit). Much of the equipment being transferred is Tooling, AGE, etc, for which credit adjustment is not required.

Redistribution of major systems is essentially complete, including the Mission Development Simulator. Actions required in the transfer of the MDS were quite

involved and time consuming (Chart # 8.1). (THIS CHART NOT USED IN LAST BRIEFING) Here is a breakdown of the more

significant elements of effort. We in the SO have contributed directly - working with the people in Washington, SAMSO, and at General Electric in developing agreements and procedures.

MILESTONE CHART 8-2

UIC -

Hold up is in area of subcontractor/vendor settlements. Primary reason is delay in receipt of audit reports.

On Ladish Sub 40 Rohr, Auditor indicates that things look better than previously anticipated.

46 vendor/sub claims - 28 settled - 18 remaining.

From Clepp's comments, it would appear that milestones, while they may be realistic, in all likelihood will be bettered.

AGC -

Mr. Carney still feels that these are outside dates and he will have no problem meeting them.

ACE -

Primary cause of slip from previous schedule is settlement of Univac sub.

Subs settled - October 70

Final Claim - November 70

Complete Final Negotiation - March 71

Exec. & Dist. - May 71

Univac anticipates difficulty in settling with Westinghouse. Claim is 110K and they are presently 80K apart.

DCASO making technical audit which is expected by 15 August 70.

If agreement cannot be reached, Univac has indicated they may settle by determination which could lead to a civil court case.

Univac's claim has been submitted to ACE. However, more information is required by ACE before they give it to DCAS.

Interim claims from ACE are being audited based on requests for partial payment. Should encounter no abnormal delays in final claim audit.

MMC -

32 sub/vendor claims still to settle. However, only 7 are responsible for the delay.

EMR is the most problematical one - refusal to grant DCAA access to records.

On Singer Gen sub Auditor has just notified McCabe of 30 day slip.

MDAC-ED -

Settlement of subs is pacing item.

Nany has led contractor to believe prime final claim cannot be submitted until all subs are settled.

Checked with Mr. Small for further advice.

6 subs are presently considered to be problem areas.

EMR - same as MMC problem with audit. Although their info is that Auditor has now been allowed in to prepare a report on rate determinations and background data. Specific cost data relating to the sub effort is still being refused.

ORDNANCE ENGINEERING ASSOCIATES - Being worked but here also DCAA has been denied access to costs records relating to the specific subm.

IBM - DCAA audit report recommends disallowance of 500K. ED has performed its own audit and finds approximately 80K to be valid costs. They are now trying for an amended report from DCAA to recognize this 80K in costs.

AIR RESEARCH - Inventory disposal at lower tier subcontract levels has caused delay in receiving subs final proposal. Quicker reaction from Air Research AFPRO would help. Partial audits have been accomplished.

HONEYWELL SOUTH - Audit report due in by end of August.

ROCKETDYNE - Basic disagreement on effort completed between prime and sub.

On the whole it appears that milestones will be bettered, with the possible exception of the two subs who have refused DCAA audit to specific cost records.

MDAC-WD - MSK settlements slow coming in. Field audits and Plant Clearance have caused delays. Plant Clearance essentially complete. Contractor's negotiations with first tier have stretched out due to lower tier settlements being delayed partially caused by Field Audit delays.

Audit problem almost cleared up now.

Possible bow wave due to lack of manpower in near future to handle full volume.

About 2600 total sub/vendor claims with estimated value of 174 MIL.

2000 have been settled - value 8.5 MIL.

Leaves approximately 600 to go with a value of approximately 165.5 MIL.

HAM STD - Stretched out primarily due to lack of ability on part of TCO to make valid evaluation of Contractor's proposal.

GE -

CHART # 9

MANPOWER

This chart is designed to show correlation between significant settlement milestones, particularly completion of plant clearance actions and final settlement, and related manpower requirements. This solid line represents equivalent head-count to date (including major subcontractor) performing special termination functions - charted on a monthly basis. The broken line is a quarterly forecast of the manning to complete the effort. The rectangle represents completion of plant clearance - the triangle final S/A. We selected September 69 for the start of the plotting so that manpower utilization would be more representative of termination activity - head-count June 10th exceeded 11,000 people.

The major effort remaining is at subcontractor locations and these are essentially routine disposal actions - Government screening, scrap sales, etc. These cases are taking in excess of six months to complete - good progress is, however, being made. In looking at the total property reutilization activity and disposal at all contractors, it is our judgment that we are 85 - 90% complete.

-- TRW - complete.

-- Ham Std - completing this month - mostly to NASA.

-- T-III - essentially complete - awaiting contractual coverage.

-- MDAC-ED - redistribution and NASA screening complete - some residual Gemini hardware still requiring disposition - mostly scrap and salvage. Unable to use Army Granite City closing or Scott AFB due to lack of storage space and personnel. Continued effort is required on subcontractor inventories.

-- MDAC-WD - In-house actions are nearing completion with subs moving well.

-- GE - In-house actions essentially complete with subs moving well.

DIFFERENCE IN COSTS

10 - 11

MDAC-WD -

2.801 profit based on Government evaluation of work accomplished.

.886 O.H. on termination costs - KR = 69%
AF = 50%

MMC -

1.671 based on historical disallowance factors. (OH & G&A)

.635 based on forecast reductions in sub-settlements and settlement expense.

1.859 profit based on contractor's special profit consideration for unusual investment and sub management. Some additional allowance made by TCO for contractor's input to total performance.

AGC -

Contractor estimates profit at 12.7%.

Government estimate is 11%.

UTC -

5.5 contractor estimates profit on basis of contract being 100% complete, vs Government estimate of 50% complete (11M vs 5.5M).

300K STC - contractor estimates 900K as authorized by contract. Government estimates 600K.

MAJOR SUBSYSTEM REUTILIZATION

10 June 69 of course was the MOL termination date. Shortly thereafter action was initiated at the Secretary of the Air Force level to establish a DOD/NASA Ad Hoc Group to determine probable reutilization of MOL technology and major subsystems. Recommendations of the Group were then submitted thru SAFSL for implementation at the various contractor locations. In addition, a number of reutilization actions were initiated at the SO and APPRO level to further augment the objective re-use of MOL equipment.

The 9 Dec 69 date represents the status as of our first briefing to Gen Higgins in Washington - 7% (\$9.M) transferred - comprising the Feeding System, Waste Management System, and the Lab Module Simulator at MDAC-WD.

The 14 April 70 date reflects the status of disposition of the major equipment items at our next briefing - 57% (\$75.M). This figure now includes reutilization of the ADPE, CITE, CAGE and NASA GEMINI equipment transferred to the Smithsonian from MDAC-FD and other equipment items.

Our status in July was 93% (\$121.M) which included all major subsystems except the Mission Development Simulator and related equipment at GE Valley Forge.

I will discuss that action in a few moments.

Most of the hardware has now been transferred to NASA. Remaining effort involves approval of some specific hardware items for transfer and AF approval of MOL documentation being furnished to NASA. SP/SL review at GE is scheduled for the week of 14 September.