

Apollo 16 LM 11 Emen hood

24 Mar 72

O'Donnell 267-0401 Home

Julie Feldman is MIT contact

just finished Icarus test +1499 -y
+747 +y

Control Run 4 5016/5017 LM 10

Control Run 2 6284/6289 CM 11B

presently in IMU, ASA, align

2nd Ref test start at 4 or 5 pm EST

Roy Parker 333-2253 (4701)

Dick Carl 488-3562 (2308)

Jack Garman 488-1411

Chuck Finch

Julie Feldman 617-244-4839

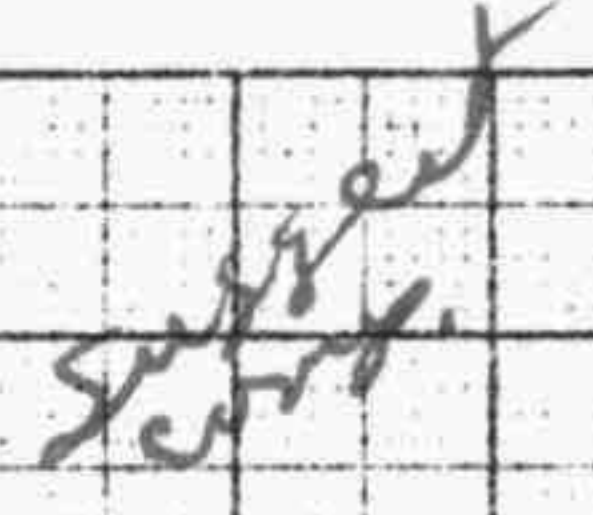
Jerry Gitmore 617-527-4642

NASA	TEMP	MAX	THERM	SUS	SUS	XFR	AVG	SD	WH	THERM	PAD	XFR	BIAS	TRQE	RES
ACC	SENS	SO	R	CAP	SG	CAP	TG	FUNC	RDT	RDT	HRS	SG	TG	RES	R
3N069	0.8		672.9	.0500			154	2.7	462						

DATE	LJC	TST IMU G&N	NBD	ADSRA	ADIA	DELSF+	DELSF-	WHEEL	RDT	HOURS	I+	I-	ID	ADDA
20C69	A41	CSS						C110						
20C69	A41	CSS	(3.1)	(- 2.8)	(- 3.1)			C112					4.2	
20C69	SG	83.8, 66.9, 55.5	TG	52.8, 68.5, 80.2				REF H5241						
60C69	A43	CSS	(4.5)	(- 3.9)	(- 2.5)			156					7.0	
60C69	3DEG	SERVO RUN IN ERROR - RERUN AS 5DEG												
60C69	A43	CSS	(3.9)	(- 3.6)	(- 2.2)			157					5.4	
90C69	A43	CSS						152						
100C69	A45	CSS	(3.8)	(- 3.2)	(- 0.6)			150					5.6	
140C69	COMP	SELECT												
140C69	A44	CSS				- 332	286	156			84.992	84.995		
150C69	COMP	VERIF												
150C69	A44	CSS				- 228	280				84.999	84.996		
150C69	DEMO	T/F = 1191.2												
150C69	A44	CSS				- 218	389	154			84.994	84.997		
160C69	VI9	IA ALIGN = -0.25												
160C69	A44	CA1	0.2	- 2.6	9.3									
160C69	A44	CA2	- 0.3	- 2.5	9.1	- 377	413				84.995	84.997	7.9	
160C69	A44	CA3	- 0.4	- 2.6	9.5			149						
190C69	A44	CB1	- 0.1	- 2.6	6.5									
190C69	A44	CB2	0.1	- 2.7	5.6	- 294	348				84.995	84.998	6.4	
190C69	A44	CB3	- 0.2	- 2.6	5.8			154						
220C69	A44	CC1	0.6	- 2.8	6.3									
220C69	A44	CC2	0.6	- 1.9	7.1	- 373	369				84.995	84.997	7.5	
220C69	A44	CC3	0.3	- 2.3	7.2			156						
240C69	D-1	SERVO RUN FOR ENGR. REF. ONLY												
240C69	A44	CD1	0.3	- 2.3	7.4			156	462					
3N069	ACC	M/O TO 0814												
11N069	UNIT	INSTALLED IN IMU 33X REPLACING 7A-41.												
18N069	A05	SPO X 33	- 1.2		9.7									
18N069	A05	SPO X 33	- 0.9	- 2.1		- 117	594				85.001		0.0	
20N069	A05	SPO X 33	- 0.8		8.8									
20N069	A05	SPO X 33	- 1.6	- 2.0				573					0.0	
21N069	GRAVITY	TRANSIENT TEST SHOWS NO FLUID PROBLEMS.												
22JA70	A05	SPO X 33	- 3.4		11.1									
22JA70	A05	SPO X 33	- 2.0	2.2									- 0.1	
23JA70	A05	SPO X 33				- 93	527		630	85.004				
3MR70	A05	SPO X 33	0.0		9.5									
3MR70	A05	SPO X 33	- 0.7	0.0									0.1	
5MR70	A05	SPO X 33				- 27	561	C117	701	85.000				
7MR70	NO	FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.												
16MR70	IMU	S/N 33 SHIPPED FROM AC/MKE TO KSC.												
2CAP70	IMU	S/N 33 SHIPPED FROM KSC TO AC/MKE.												
21MY70	A05	SPO X 33	- 0.4		14.7									
21MY70	A05	SPO X 33	- 0.2	1.3				C116					- 0.2	
22MY70	A05	SPO X 33				50	651			84.999				
2JE70	A05	SPO X 33						771						
5AU70	A05	SPO X 33	- 1.1		16.2									

DATE	LJC	TST IMU G&N TYP ASSN SYS	NBD	ADSRA	ADIA	DELSF+ DELSF-	WHEEL RDT HOURS	I+	I-	ID	ADDA
5AU70	A05	SPO X 33	- 0.5	- 1.2		60 684		85.004			- 0.3
11AU70 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.											
11AU70							847				
2DE70	A05	SPO X 33	0.6		16.3						- 0.6
2DE70	A05	SPO X 33	0.0	0.0							
2DE70	A05	SPO X 33					C120				
3DE70	A05	SPO X 33				40 674		85.001			
5JA71 IMU S/N 33 SHIPPED FROM DEL/MKE TO KSC.											
3FE71 IMU S/N 33 SHIPPED FROM KSC TO DELCO/MKE.											
25MR71	A07	SPO X 33	- 2.5		12.6						0.0
25MR71	A07	SPO X 33	- 1.1	- 0.5							
26MR71	A07	SPO X 33				- 117 517		85.002			
1AP71 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.											
2JE71	A07	SPO X 33	2.4		16.4						
2JE71	A07	SPO X 33	1.0	- 1.6							- 0.4
3JE71	A07	SPO X 33				- 160 628		85.002			
1JL71 IMU 33 SHIPPED FROM DELCO/MKE TO KSC.											
9AU71 IMU 33 SHIPPED FROM KSC TO DELCO/MKE.											
21SE71	A05	SPO X 33	0.1		13.2						- 0.4
21SE71	A05	SPO X 33	0.3	0.2							
22SE71	A05	SPO X 33				184 674		85.002			
27SE71 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.											
13DE71	A07	SPO X 33	0.8		12.9						
13DE71	A07	SPO X 33	- 0.1	- 3.7							- 0.1
20DE71	A07	SPO X 33				94 718		84.999			
15 MAR 72 SPO -1.7 -0.2 11.4											
24 MAR 72 K37 G&N +1.3 +.2 10.2											

10/14/71



NASA	TEMP	MAX	THERM	SUS	SUS	XFR	AVG	SD	WH	THERM	PAD	XFR	BIAS	TRQE	RES
ACC	SENS	SD	R	CAP	SG	CAP	TG	FUNC	RDT	RDT	HRS	SG	TG	RES	R
210C69	0.8		688.5	.0470			144	2.8	438						

DATE	LJC	TYP	ASSN	SYS	NBD	ADSRA	ADIA	DELSF+	DELSF-	WHEEL	RDT	HOURS	I+	I-	ID	ADDA
22SE69	A43	CSS								C102						
22SE69	A43	CSS								C106					- 5.7	
23SE69	SG	75.2, 65.1, 41.3	TG	56.3, 65.5, 95.4						REF H5247						
25SE69	A43	CSS								141					- 8.8	
29SE69	A44	CSS								144					- 6.6	
30SE69	A44	CSS								146						
20C69	COMP	SELECT														
20C69	A45	CSS						214	68	138			85.001	84.999		
30C69	COMP	VERIF	IA	ALIGN	VERIF	DOS = -3.5 / UNIT	REALIGNED									
30C69	A45	CSS						- 32	- 199				85.000	84.999		
30C69	DEMO	T/F = 1207														
30C69	A45	CSS						- 135	- 62	142			85.000	84.998		
30C69	VIB	IA	ALIGN = +0.75													
40C69	A45	CA1								148						
40C69	A	SERVO	ABORTED	STARTED	PRIOR	TO 12 DAY	BANK									
50C69	A	SERVO	RESTART	ABORTED	EQUIPMENT	PROBLEMS										
50C69	A45	CA1								144						
50C69	A41	CA1			0.3	- 5.7	- 2.2									
50C69	A41	CA2			0.7	- 5.0	- 3.7	524	413				85.004	85.004	- 7.0	
50C69	A41	CA3			0.7	- 5.2	- 2.8			142						
70C69	A44	CB1			- 0.1	- 5.9	- 4.3									
70C69	A44	CB2			0.3	- 5.4	- 5.5	93	68				84.997	84.999	- 4.0	
70C69	A44	CB3			0.4	- 5.5	- 9.8			146						
90C69	A41	CC1			0.1	- 5.6	- 4.7									
90C69	A41	CC2			- 0.1	- 5.7	- 6.8	459	355				84.999	84.998	- 3.9	
90C69	A41	CC3			- 0.5	- 6.4	- 6.5			145	438					
210C69	ACC.	& M/O	TO 0814													
11NO69	UNIT	INSTALLED	IN IMU	33Y	REPLACING	7C-120.										
18NO69	A05	SPO	Y 33		0.3	- 2.4										
18NO69	A05	SPO	Y 33		0.9	- 9.6		174	494				85.004		- 0.7	
20NO69	A05	SPO	Y 33		1.7	- 0.2										
20NO69	A05	SPO	Y 33		1.9	- 10.1				549					- 0.5	
21NO69	GRAVITY	TRANSIENT	TEST	SHOWS	NO FLUID	PROBLEMS.										
22JA70	A05	SPO	Y 33		- 0.8	- 0.5										
22JA70	A05	SPO	Y 33		- 0.4	- 8.8									- 0.8	
23JA70	A05	SPO	Y 33					360	728			606	85.004			
4MR70	A05	SPO	Y 33		- 0.7	- 11.5										
4MR70	A05	SPO	Y 33		- 0.4	- 10.1									- 0.7	
5MR70	A05	SPO	Y 33					494	794	C108	677	85.000				
7MR70	NO	FLUID	TRANSIENTS	DETECTED	DURING	GRAVITY	TRANSIENT	TEST.								
16MR70	IMU	S/N 33	SHIPPED	FROM	AC/MKE	TO KSC.										
20AP70	IMU	S/N 33	SHIPPED	FROM	KSC	TO AC/MKE.										
21MY70	A05	SPO	Y 33		2.4	1.6										
21MY70	A05	SPO	Y 33		2.8	- 6.7				C111					- 0.3	
22MY70	A05	SPO	Y 33					551	975				84.999			
2JE70	A05	SPO	Y 33							746						
5AU70	A05	SPO	Y 33		- 1.1	- 3.7										

DATE	LDC	TST IMU GEN TYP ASSN SYS	NBD	ADSRA	ADIA	DELSF+	DELSF-	WHEEL RDT HOURS	I+	I-	ID	ADDA
5AU70	A05	SPO Y 33	0.5	- 6.3		584	1128		85.004			0.0
11AU70 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.												
11AU70								823				
2DE70	A05	SPO Y 33	- 0.3		3.8							
2DE70	A05	SPO Y 33	0.4	- 5.4								0.2
2DE70	A05	SPO Y 33						C112				
3DE70	A05	SPO Y 33				574	1085		85.004			
5JA71 IMU S/N 33 SHIPPED FROM DEL/MKE TO KSC.												
3FE71 IMU S/N 33 SHIPPED FROM KSC TO DELCO/MKE.												
25MR71	A07	SPO Y 33	2.1		1.8							
26MR71	A07	SPO Y 33	0.6	- 3.0		394	1008		85.002			- 0.4
1AP71 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.												
2JE71	A07	SPO Y 33	- 1.1		- 5.0							
2JE71	A07	SPO Y 33	- 0.5	- 1.5								- 0.8
3JE71	A07	SPO Y 33				507	1128		85.002			
1JL71 IMU 33 SHIPPED FROM DELCO/MKE TO KSC.												
9AU71 IMU 33 SHIPPED FROM KSC TO DELCO/MKE.												
21SE71	A05	SPO Y 33	0.5	- 2.6								
22SE71	A05	SPO Y 33	0.9	- 1.1		718	1285		85.004			- 0.1
27SE71 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.												
13DE71	A07	SPO Y 33	1.7	- 5.3								
14DE71	A07	SPO Y 33	1.7	- 5.3								- 0.4
20DE71	A07	SPO Y 33				594	1285		85.000			

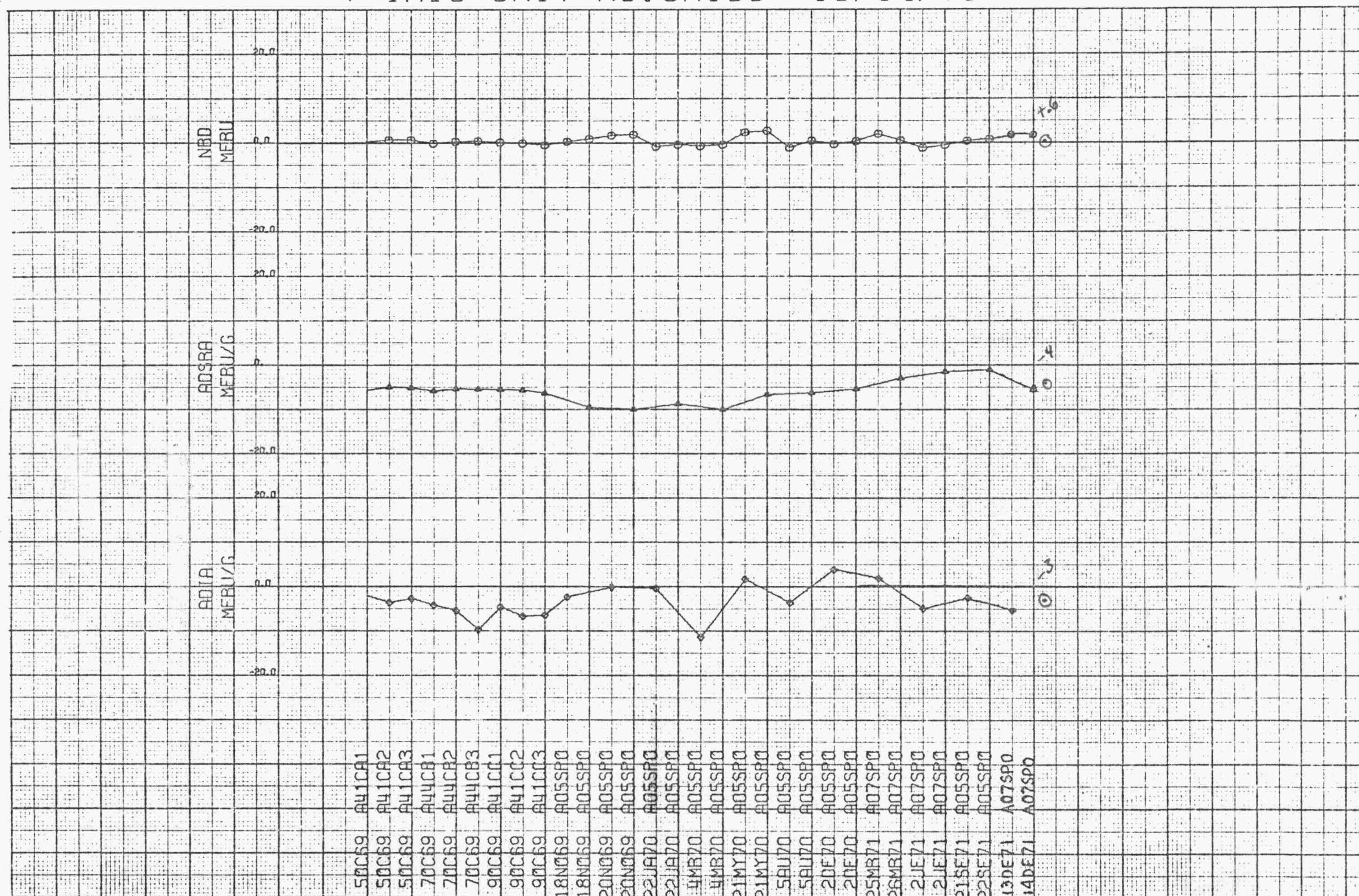
13 MAR 72 SPO

0.1 -7.2 -5.9

24 MAR 72 139 C/N

1.0 -6.7 -5.8

Y IRIG UNIT NO. 8A135 10/14/71



LEGEND: ○ NBD ▲ ADSRA ◆ ADIA

NASA ACC	TEMP SENS	MAX SD	THERM R	SUS CAP	SUS SG	XFR CAP	AVG TG	SD RDT	WH HRS	THERM SG	PAD TG	XFR RES	BIAS R	TRQE +	RES -
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3ND69	0.9		678.1	.0485			178	2.8	480						
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DATE	LJC	TYP	IMU ASSN	G&N SYS	NBD	ADSRA	ADIA	DELSF+	DELSF-	WHEEL RDT	HOURS	I+	I-	ID	ADDA		
25SE69	A41	CSS								C125							
25SE69	A41	CSS								179				4.0			
25SE69	RD	OOS	RE-RUN	SERVO	STILL	OOS	/	PHASE	ANGLE	SET	AT	54	DEG	OK			
25SE69	A41	CSS												4.6			
26SE69	A41	CSS								C122				2.5			
28SE69	SG	81.5,	65.9,	47.7	TG	81.5,	65.9,	86.6		REF	H5226						
40C69	A41	CSS								182				4.4			
70C69	A41	CSS								178				4.1			
70C69	A41	CSS								174							
160C69	COMP	SELECT															
160C69	A45	CSS						-	107	-	4	173		85.000	84.998		
170C69	TG	END	COVER	DENTED	/UNIT	REPAIRED	&	REALIGNED									
200C69	COMP	VERIF															
200C69	A45	CSS						-	166		54			84.999	84.998		
200C69	DEMO	T/F	=	1181,	S/F	OOS	&	HEATER,	COCKED	/	REALIGN	&	REDEMO				
200C69	A45	CSS						-	259		71	179		84.999	84.998		
200C69	A45	CSS									180						
220C69	VIB	IA	ALIGN	=	+1.75												
220C69	A45	CA1			-	1.0	-	5.8		10.0							
220C69	A45	CA2			-	0.6	-	5.4		8.8	-	563	68	85.000	84.998		
220C69	A45	CA3			-	0.4	-	5.5		8.6				180			
260C69	A45	CB1												181			
270C69	B	SERVO	ABORTED	TEST	EQUIPMENT	PROBLEMS											
270C69	A45	CB1			-	1.5	-	5.4		11.0							
270C69	A45	CB2			-	1.4	-	5.3		11.1	-	490	-	14	85.000	85.000	
270C69	A45	CB3			-	1.8	-	5.5		10.6				180			
290C69	A45	CC1			-	1.2	-	5.2		12.4							
290C69	A45	CC2			-	1.1	-	5.3		12.1	-	404	225	84.997	84.999		
290C69	A45	CC3			-	0.7	-	5.0		12.7				177	480		
3ND69	ACC.	M/O	TO	0814													
11ND69	UNIT	INSTALLED	IN	IMU	33Z	REPLACING	7C-15.										
18ND69	A05	SPO	Z	33		0.5				8.8							
18ND69	A05	SPO	Z	33		0.3	-	7.0			-	250	-	140	85.004	0.6	
20ND69	A05	SPO	Z	33		0.5				10.0							
20ND69	A05	SPO	Z	33		0.9	-	7.2						591	0.9		
21ND69	GRAVITY	TRANSIENT	TEST	SHOWS	NO	FLUID	PROBLEMS.										
23JA70	A05	SPO	Z	33		0.8				11.1							
23JA70	A05	SPO	Z	33		0.9	-	2.2							1.1		
26JA70	A05	SPO	Z	33							-	207	-	217	648	85.003	
4MR70	A05	SPO	Z	33		0.8				10.2							
5MR70	A05	SPO	Z	33		0.7		0.0							1.2		
5MR70	A05	SPO	Z	33							-	217	-	207	C127	719	85.000
7MR70	NO	FLUID	TRANSIENTS	DETECTED	DURING	GRAVITY	TRANSIENT	TEST.									
16MR70	IMU	S/N	33	SHIPPED	FROM	AC/MKE	TO	KSC.									
20AP70	IMU	S/N	33	SHIPPED	FROM	KSC	TO	AC/MKE.									
21MY70	A05	SPO	Z	33		2.3				12.4							
21MY70	A05	SPO	Z	33		2.6	-	5.3						C123	1.4		

DATE	LJC	TST IMU G&N TYP ASSN SYS	NBD	ADSRA	ADIA	DELSF+	DELSF-	WHEEL RDT HOURS	I+	I-	ID	ADDA
22MY70	A05	SPO Z 33				- 140	- 107		85.000			
2JE70	A05	SPO Z 33						788				
5AU70	A05	SPO Z 33	0.4		13.8							
5AU70	A05	SPO Z 33	- 0.3	0.4		- 83	- 50		85.008			1.2
11AU70 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.												
11AU70								865				
2DE70	A05	SPO Z 33						C130				
3DE70	A05	SPO Z 33	- 2.4		13.5							
3DE70	A05	SPO Z 33	- 3.3	- 3.7		- 27	60		85.004			1.6
5JA71 IMU S/N 33 SHIPPED FROM DEL/MKE TO KSC.												
3FE71 IMU S/N 33 SHIPPED FROM KSC TO DELCO/MKE.												
26MR71	A07	SPO Z 33	- 3.2		13.8							
26MR71	A07	SPO Z 33	- 3.2	- 1.0		- 217	- 50		85.002			1.0
1AP71 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.												
3JE71	A07	SPO Z 33	- 1.4		15.3							
3JE71	A07	SPO Z 33	- 2.7	0.7		- 93	- 17		85.002			0.9
1JL71 IMU 33 SHIPPED FROM DELCO/MKE TO KSC.												
9AU71 IMU 33 SHIPPED FROM KSC TO DELCO/MKE.												
22SE71	A05	SPO Z 33	- 4.2		13.5							
22SE71	A05	SPO Z 33	- 4.6	1.7								1.2
23SE71	A05	SPO Z 33				7	141		85.002			
27SE71 NO FLUID TRANSIENTS DETECTED DURING GRAVITY TRANSIENT TEST.												
14DE71	A07	SPO Z 33	- 2.8		13.8							
14DE71	A07	SPO Z 33	- 3.1	- 4.6								0.9
20DE71	A07	SPO Z 33				- 127	17		85.004			

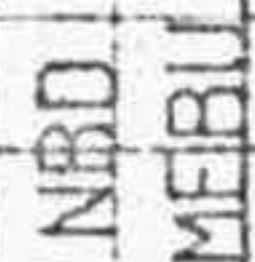
15MAR 80

-1.1 6.8 11.9

24MAR 80 K39 G9N

-2.7 3.7 15.8

10/14/71



ADSR
MEBLLG

ADIA
MEBU/G

P20C69	A45CA1
P20C69	A45CA2
P20C69	A45CA3
P20C69	A45CB1
P20C69	A45CB2
P20C69	A45CB3
P20C69	A45C01
P20C69	A45C02
P20C69	A45C03
18N069	A05SP0
18N069	A05SP0
20N069	A05SP0
20N069	A05SP0
23JA70	A05SP0
23JA70	A05SP0
4MR70	A05SP0
5MR70	A05SP0
21MY70	A05SP0
21MY70	A05SP0
5AU70	A05SP0
5AU70	A05SP0
3BE70	A05SP0
3DE70	A05SP0
26MB71	A07SP0
26MB71	A07SP0
3JE71	A07SP0
3JE71	A07SP0
22SE71	A05SP0
22SE71	A05SP0
14DE71	A07SP0
14DE71	A07SP0

2023-1-28

DATE	LOC	TST TYP	IMU ASSN	G&N SYS	DELTA SF	1G BIAS	NULL BIAS	ROT-AL-WOB ANGLE	MAX. TRANS.	TORQ MON CURRENT
13SE66	S41	ACC			48		0.00			104.7219
11AP68	A44	FST			20	-0.12				
26AP68	UNIT ASSIGNED TO IMU S/N 33X									
20JE68	A17	SPR X 33			(- 335)	(0.13)	(0.08)			43.7971
20JE68	A17	SPR X 33			2	-0.00	0.06			43.7938
20JE68	AFTER DEGAUSSING AND ADJUSTMENT									
4JL68	A17	SPO X 33			- 255	-0.09	-0.10			43.7927
4JL68	A17	SAL X 33					(-0.09)	4	6	
9JL68	A17	SAL X 33					(-0.16)	4	19	
15JL68	A17	G&N X 33			- 206	0.03				43.8000
10AU68	IMU S/N 33 SHIPPED TO GAEC									
22AU68	G20	SAL X 33	614				(0.10)	- 13	7	
23AU68	G21	G&N X 33	607		- 354	-0.06				43.7926
9OC68	GSC	G&N X 33	607		- 437	0.01				
10DE68	GSC	G&N X 33	607		- 477	-0.08				
14FE69	GSC	G&N X 33	607		- 522	-0.04				
24MR69	IMU S/N 33 SHIPPED TO KSC IN G&N SYSTEM 607, LM 6									
13MY69	KOB	G&N X 33	607		- 651	-0.22				
7JL69	KAB	G&N X 33			- 624	0.02				
5AU69	IMU S/N 33 REMOVED FROM 607, LM-6, REPLACED BY IMU S/N 15									
8JL69	IMU S/N 33 SHIPPED FROM KSC TO AC-MKE									
17NO69	A05	SPO X 33			- 732	-0.15	-0.20			43.7938
17NO69	ADJUST BIAS TO 1.5 PLUS OR MINUS 0.1									
19NO69	A05	SAL X 33					(1.47)	- 3	7	
20NO69	A05	SPO X 33			- 566	1.52	1.50			43.7943
26JA70	A05	SPO X 33			- 766	1.81	1.80			43.7940
26JA70	A05	SAL X 33					(1.75)	- 14	8	
5MR70	A05	SPO X 33			- 625	1.86	1.88			43.8000
6MR70	A05	SAL X 33					(1.78)	- 8	9	
16MR70	IMU S/N 33 SHIPPED TO KSC									
20AP70	IMU S/N 33 SHIPPED FROM KSC TO AC/MKE.									
22MY70	A05	SPO X 33			- 659	1.78	1.78			43.7930
25MY70	A05	SPO X 33							0.04	
26MY70	A05	SAL X 33					(1.68)	- 6	11	
6AU70	A05	SPO X 33			- 786	1.91	1.89		0.06	43.7939
7AU70	A05	SAL X 33					(1.90)	- 11	10	
4DE70	A05	SPO X 33			- 759	1.78	1.76		0.06	43.7929
7DE70	A05	SAL X 33					(1.61)	- 7	7	
5JA71	IMU S/N 33 SHIPPED FROM DEL/MKE TO KSC.									
3FE71	IMU 33 SHIPPED FROM KSC TO MKE									
29MR71	A07	SPO X 33			- 839	1.55	1.49		0.06	43.7936
30MR71	A07	SAL X 33					(1.62)	- 4	7	
4JE71	A07	SPO X 33			- 787	1.72	1.70		0.07	43.7937
7JE71	A07	SAL X 33					(1.60)	- 5	8	
1JL71	IMU 33 SHIPPED FROM DELCO/MKE TO KSC.									
9AU71	IMU 33 SHIPPED FROM KSC TO DELCO/MKE.									
23SE71	A05	SPO X 33			- 833	1.68	1.66		0.04	43.7933
27SE71	A05	SAL X 33					(1.88)	- 7	10	
21DE71	A07	SPO X 33			- 959	1.82	1.81		0.10	43.7913
22DE71	A07	SAL X 33					(1.85)	- 7	13	

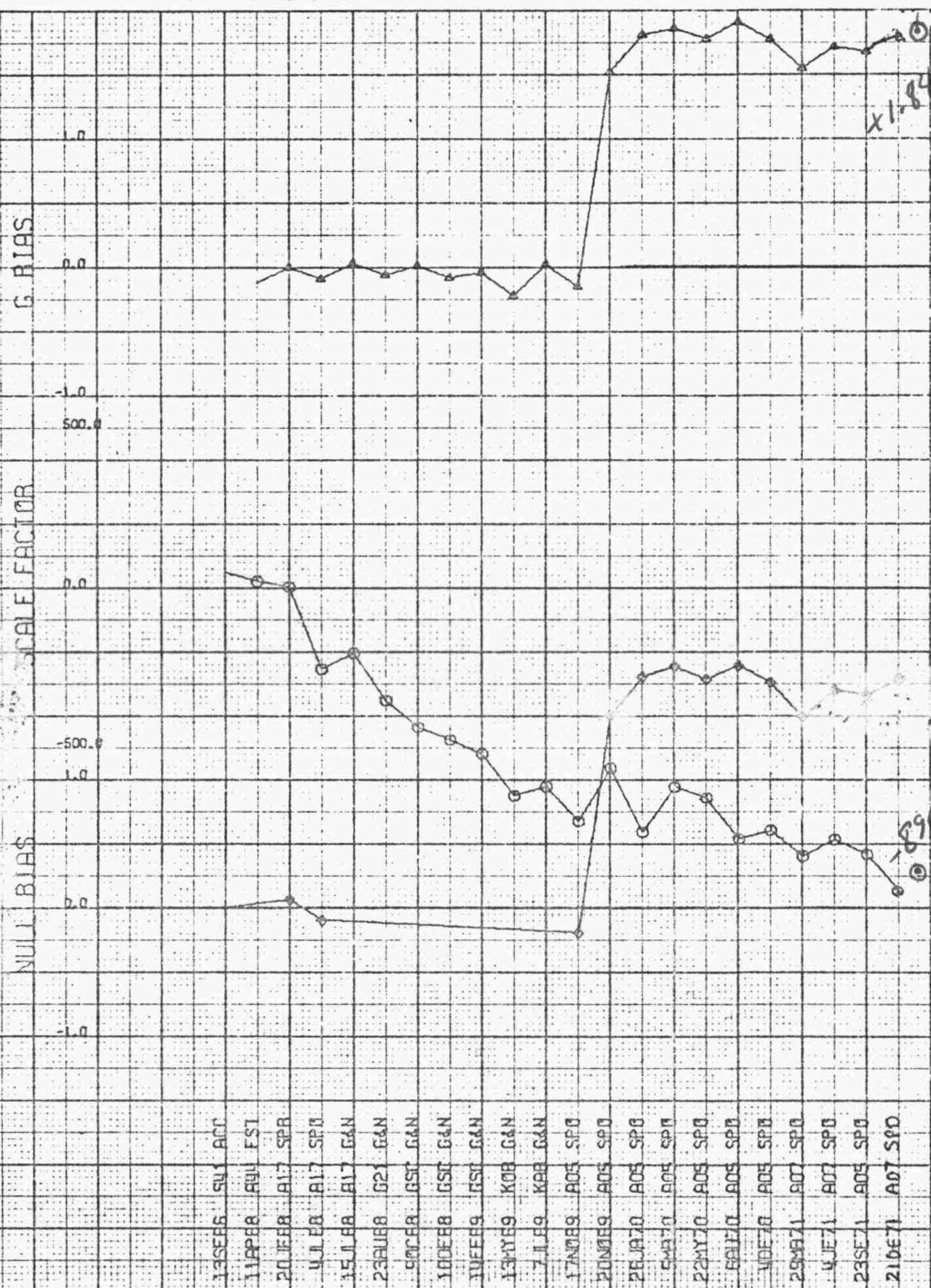
18 MAR

-801 1.87

24 MAR

-838 1.86

X PIPA UNIT NO. 2AP272 10/14/71



LEGEND: ○ SF ▲ GBIAS ● NBIAS

2023-1-30

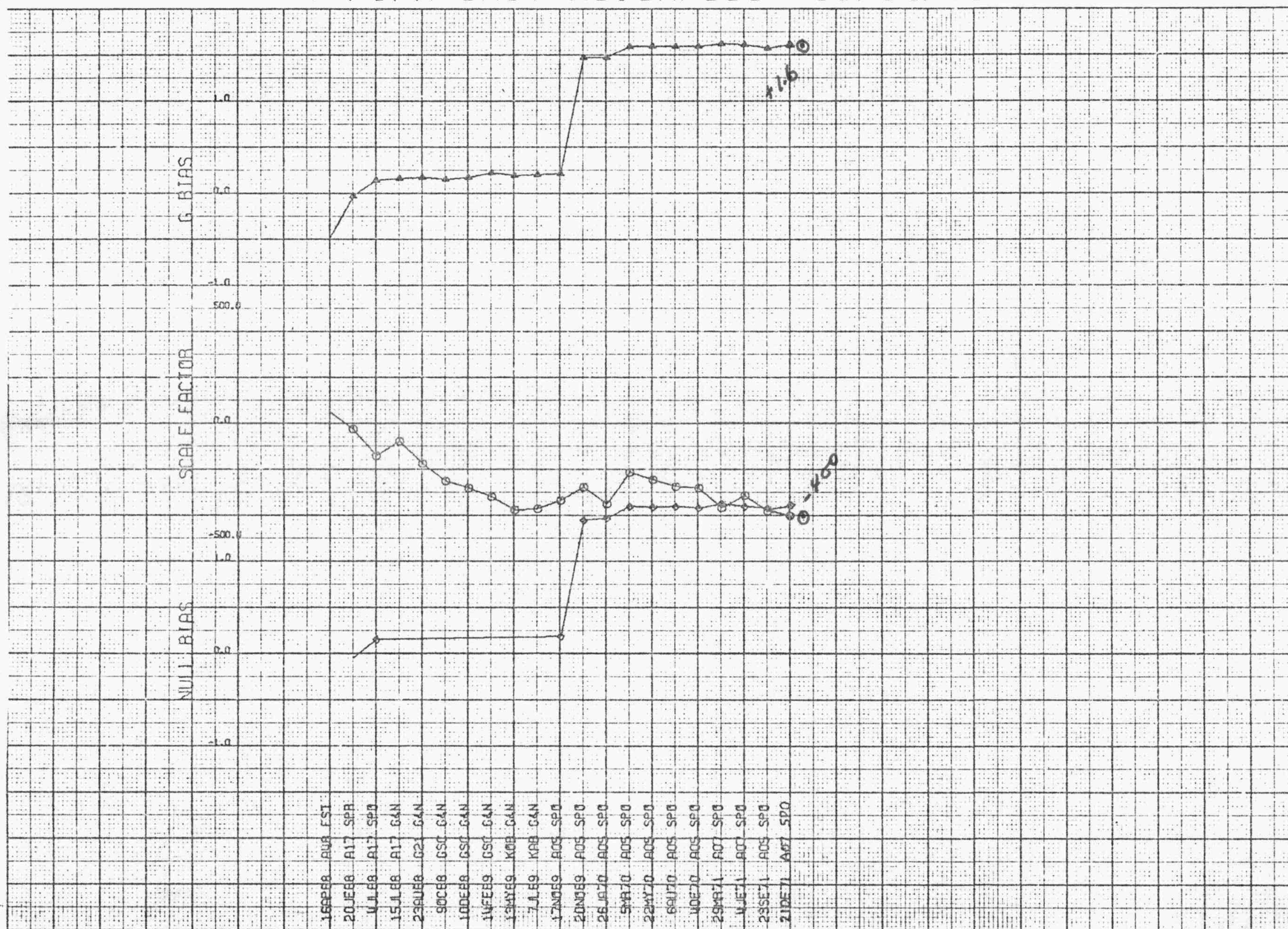
DATE	LOC	TST TYP	IMU ASSN	GEN SYS	DELTA SF	1G BIAS	NULL BIAS	ROT-AL-WOB ANGLE	MAX. TRANS.	TORQ MON CURRENT
16AP68	A48	FST			49	-0.48				43.4075
26AP68		UNIT ASSN TO IMU S/N 33								
20JE68	A17	SPR Y 33			(- 262)	(-0.20)	(-0.19)			43.3854
20JE68	A17	SPR Y 33			- 26	-0.03	-0.05			43.3856
20JE68		AFTER DEGAUSSING AND ADJUSTMENT								
4JL68	A17	SPO Y 33			- 143	0.14	0.15			43.3850
4JL68	A17	SAL Y 33					(0.13)	8 - 27		
9JL68	A17	SAL Y 33					(0.18)	10 - 25		
15JL68	A17	GEN Y 33			- 80	0.16				43.4000
10AU68		IMU S/N 33 SHIPPED TO GAEC								
22AU68	G20	SAL Y 33					(0.18)	6 - 12		
23AU68	G21	GEN Y 33	607		- 177	0.17				43.3862
9OC68	GSC	GEN Y 33	607		- 253	0.15				
10DE68	GSC	GEN Y 33	607		- 283	0.17				
14FE69	GSC	GEN Y 33	607		- 321	0.22				
24MR69		IMU S/N 33 SHIPPED TO KSC IN GEN SYSTEM 607, LM 6								
13MY69	KOB	GEN Y 33	607		- 380	0.19				
7JL69	KAB	GEN Y 33			- 374	0.20				
5AU69		IMU S/N 33 REMOVED FROM 607, LM-6, REPLACED BY IMU S/N 15								
8JL69		IMU S/N 33 SHIPPED FROM KSC TO AC-MKE								
17NO69	A05	SPO Y 33			- 337	0.21	0.18			43.3880
17NO69		ADJUST BIAS TO 1.5 PLUS OR MINUS 0.1								
19NO69	A05	SAL Y 33					(1.44)	0 - 12		
20NO69	A05	SPO Y 33			- 279	1.47	1.44			43.3875
26JA70	A05	SPO Y 33			- 353	1.47	1.46			43.3870
26JA70	A05	SAL Y 33					(1.45)	6 - 13		
5MR70	A05	SPO Y 33			- 216	1.59	1.59			43.3860
6MR70	A05	SAL Y 33					(1.58)	3 - 13		
16MR70		IMU S/N 33 SHIPPED TO KSC								
20AP70		IMU S/N 33 SHIPPED FROM KSC TO AC/MKE.								
22MY70	A05	SPO Y 33			- 247	1.59	1.58			43.3861
25MY70	A05	SPO Y 33						0.03		
26MY70	A05	SAL Y 33					(1.52)	3 - 12		
6AU70	A05	SPO Y 33			- 277	1.59	1.59		0.03	43.3871
7AU70	A05	SAL Y 33					(1.58)	4 - 13		
4DE70	A05	SPO Y 33			- 283	1.59	1.57			43.3880
7DE70	A05	SPO Y 33						0.04		
8DE70	A05	SAL Y 33					(1.55)	4 - 14		
5JA71		IMU S/N 33 SHIPPED FROM DEL/MKE TO KSC.								
3FE71		IMU 33 SHIPPED FROM KSC TO MKE								
29MR71	A07	SPO Y 33			- 369	1.62	1.62			43.3872
29MR71	A07	SPO Y 33						0.04		
30MR71	A07	SAL Y 33					(1.58)	4 - 13		
4JE71	A07	SPO Y 33			- 316	1.61	1.59			43.3872
7JE71	A07	SPO Y 33						0.02		
7JE71	A07	SAL Y 33					(1.61)	4 - 14		
1JL71		IMU 33 SHIPPED FROM DELCO/MKE TO KSC.								
9AU71		IMU 33 SHIPPED FROM KSC TO DELCO/MKE.								
23SE71	A05	SPO Y 33			- 384	1.57	1.57		0.02	43.3866
27SE71	A05	SAL Y 33					(1.55)	2 - 14		
21DE71	A07	SPO Y 33			- 399	1.61	1.62		0.02	43.3868
22DE71	A07	SAL Y 33					(1.60)	4 - 12		

19 MAR

24 MAR

- 398 1.59
- 421 1.60

Y PIPA UNIT NO. 3AP338 10/14/71



LEGEND: ○ SF ▲ GBIAS ◆ NULL BIAS

DATE	LOC	TST TYP	IMU ASSN	G&N SYS	DELTA SF	1G BIAS	NULL BIAS	ROT-AL-WOB ANGLE	MAX. TRANS.	TORQ MON CURRENT
20FE67	S48	ACC			- 29	0.00				105.2691
26AP68			UNIT ASSIGNED TO IMU S/N 33Z							
20JE68	A17	SPR Z 33			(175)	(-0.06)	(-0.10)			43.9972
21JE68	A17	SPR Z 33			17	0.02	0.04			43.9927
21JE68		AFTER DEGAUSSING AND ADJUSTMENT								
4JL68	A17	SPO Z 33			- 251	0.08	0.09			43.9923
4JL68	A17	SAL Z 33					(0.08)	2		
9JL68	A17	SAL Z 33					(0.01)	- 1		
15JL68	A17	G&N Z 33			- 240	0.07				
10AU68		IMU S/N 33 SHIPPED TO GAEC								
22AU68	G20	SAL Z 33					(0.10)	9		
23AU68	G21	G&N Z 33	607		- 328	0.16				43.9933
90C68	GSC	G&N Z 33	607		- 485	0.22				
10DE68	GSC	G&N Z 33	607		- 540	0.22				
14FE69	GSC	G&N Z 33	607		- 585	0.23				
24MR69		IMU S/N 33 SHIPPED TO KSC IN G&N SYSTEM 607, LM 6								
13MY69	KOB	G&N Z 33	607		- 715	0.18				
7JL69	KAB	G&N Z 33			- 693	0.23				
5AU69		IMU S/N 33 REMOVED FROM 607, LM-6, REPLACED BY IMU S/N 15								
8JL69		IMU S/N 33 SHIPPED FROM KSC TO AC-MKE								
18NO69	A05	SPO Z 33			- 606	0.31	0.29			43.9938
18NO69		ADJUST BIAS TO 1.5 PLUS OR MINUS 0.1								
19NO69	A05	SAL Z 33					(1.44)	9		
20NO69	A05	SPO Z 33			- 472	1.44	1.42			43.9948
26JA70	A05	SPO Z 33			- 568	1.22	1.19			43.9942
26JA70	A05	SAL Z 33					(1.21)	8		
5MR70	A05	SPO Z 33			- 384	1.01	1.01			43.9929
6MR70	A05	SAL Z 33					(0.96)	10		
16MR70		IMU S/N 33 SHIPPED TO KSC								
20AP70		IMU S/N 33 SHIPPED FROM KSC TO AC/MKE.								
25MY70	A05	SPO Z 33			- 440	1.29	1.28		0.06	43.9926
26MY70	A05	SAL Z 33					(1.13)	8		
6AU70	A05	SPO Z 33			- 445	1.03	1.01			43.9942
7AU70	A05	SPO Z 33							0.00	
7AU70	A05	SAL Z 33					(1.05)	11		
4DE70	A05	SPO Z 33			- 428	1.19	1.18			43.9952
7DE70	A05	SPO Z 33							0.04	
7DE70	A05	SAL Z 33					(1.16)	11		
5JA71		IMU S/N 33 SHIPPED FROM DEL/MKE TO KSC.								
3FE71		IMU 33 SHIPPED FROM KSC TO MKE								
29MR71	A07	SPO Z 33			- 493	1.22	1.22			43.9944
30MR71	A07	SPO Z 33							0.05	
30MR71	A07	SAL Z 33					(1.21)	12		
4JE71	A07	SPO Z 33			- 426	1.13	1.13			43.9944
7JE71	A07	SPO Z 33							0.03	
7JE71	A07	SAL Z 33					(1.13)	10		
1JL71		IMU 33 SHIPPED FROM DELCO/MKE TO KSC.								
9AU71		IMU 33 SHIPPED FROM KSC TO DELCO/MKE.								
24SE71	A05	SPO Z 33			- 473	1.28	1.27			43.9936
27SE71	A05	SPO Z 33							0.04	
27SE71	A05	SAL Z 33					(1.29)	8		
21DE71	A07	SPO Z 33			- 491	1.16	1.15		0.05	43.9955
22DE71	A07	SAL Z 33					(1.18)	12		

15 mar

24 mar

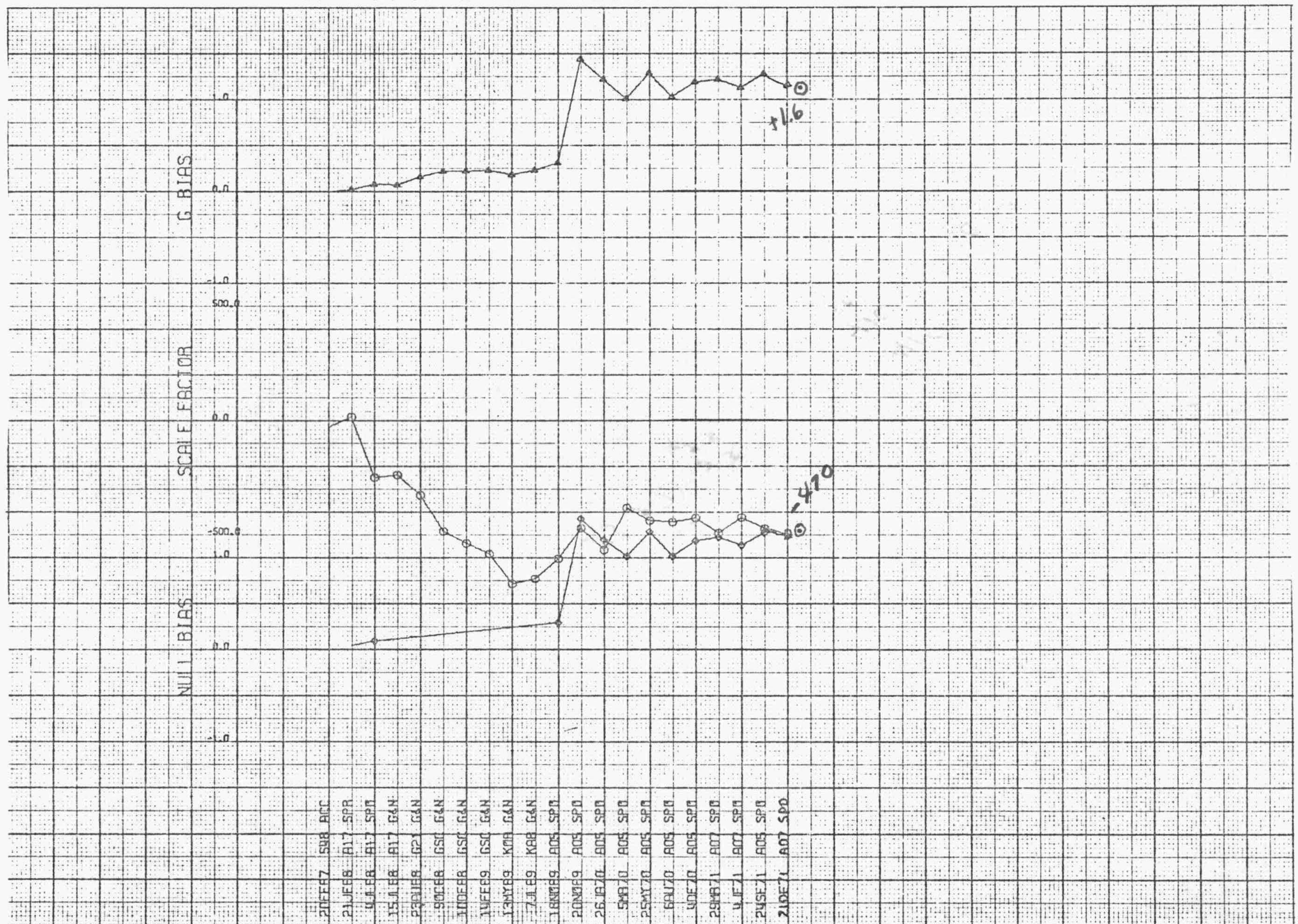
-443

-524

1/16

1.23

Z PIPA UNIT NO. 2AP294 10/14/71



LEGEND: ○ SF ▲ GBIAS ○ NBIAS

G. Silver

Massachusetts Institute of Technology
Charles Stark Draper Laboratory

23S Memo 72-11

TO: Distribution
FROM: D.J. Grief
DATE: 17 February 1972
SUBJECT: Apollo 16 Support Personnel

The following motel reservations have been made for personnel attending the Apollo 16 Launch on 16 April 1972.

Siesta Motel - Titusville - Guaranteed for 13th, 14th and 15th.
Room rate approximately \$26.00 per day double occupancy.

1. Dr. H. W. Johnson
2. Dr. and Mrs. Draper
3. R.A. Duffy and G. Silver *
4. Dr. and Mrs. W. Wrigley
5. Mr. and Mrs. R. Ragan *
6. P. Felleman and R. Sheridan *
7. Mr. and Mrs. S. Femino *

*Advanced payment has been made for these rooms. Please return room receipts to D. Grief DL7-142 for voucher submittal.

Motel "6" Cocoa Beach - Reserved for 13th, 14th and 15th.
Room rate approximately \$10.00 per day double occupancy.

1. Mr. and Mrs. R. Larson
2. Mr. and Mrs. R. Lones
3. Jane Partridge
4. D. Brown and C. Ogren
5. J. Higgins and W. Salzberg
6. Mr. and Mrs. D. Dolan

Clearance requirements are being arranged through this office.

Travel arrangements should be made individually.

Any question concerning duty assignment or reservation arrangements should be directed to either P. Felleman or myself.

Distribution:

Attendees
R. O'Donnell
J. Stevenson

D. Hoag
L. Larson
N. Sears

R. Battin
H. Lanning
E. Hall

G. Silver

Massachusetts Institute of Technology
Charles Stark Draper Laboratory

23S Memo 72-11 Rev 1

TO: Distribution
FROM: D. Grief
DATE: 3 March 1972
SUBJECT: Revision to 23S Memo 72-11 dated 17 February 1972,
Apollo 16 Support Personnel

Some changes have been necessary in room allocations for the
Apollo 16 launch as indicated below:

Siesta Motel

1. Dr. J. R. Killian Jr.
2. Dr. H. W. Johnson
3. Dr. & Mrs. C. S. Draper
4. Dr. & Mrs. W. Wrigley
5. Mr. & Mrs. R. Ragan
6. Mr. & Mrs. S. Femino
7. Mr. & Mrs. W. Saltzberg
8. Mr. G. Silver & Mr. R. Brown
9. Mr. P. Felleman & Mr. R. Sheridan

Motel "6"

1. Mr. & Mrs. R. Larson
2. Mr. & Mrs. R. Lones & Family
3. Mr. & Mrs. C. Ogren
4. Mr. & Mrs. J. Higgins
5. Mr. & Mrs. D. Dolan
6. Miss Jayne Partridge

If any changes are to be made, please advise P. Felleman.

Distribution:

Attendees
R. O'Donnell
J. Stevenson
D. Hoag
L. Larson

N. Sears
R. Battin
H. Lanning
E. Hall

G. Silver

Massachusetts Institute of Technology
Charles Stark Draper Laboratory

23S Memo 72-11 Rev 2

TO: Distribution
FROM: D. Grief
DATE: 27 March 1972
SUBJECT: Revision to 23S Memo 72-11 dated 17 February 1972,
Apollo 16 Support Personnel

Some changes have been necessary in room allocations for the
Apollo 16 launch as indicated below:

Siesta Motel

1. P. Felleman
2. Dr. and Mrs. H.W. Johnson
3. Dr. & Mrs. C.S. Draper
4. Dr. & Mrs. W. Wrigley
5. Mr. & Mrs. R. Ragan
6. Mr. & Mrs. S. Femino
7. Mr. & Mrs. W. Saltzberg
8. Mr. and Mrs. R. Brown
9. Mr. G. Silver and Mr. R. Sheridan

Motel "6"

1. Mr. & Mrs. R. Larson
2. Mr. & Mrs. R. Lones & Family
3. Mr. & Mrs. C. Ogren
4. Mr. & Mrs. J. Higgins
5. Mr. & Mrs. D. Dolan
6. Miss Jayne Partridge

If any changes are to be made, please advise P. Felleman.

Distribution:

Attendees
R. O'Donnell
J. Stevenson
D. Hoag
L. Larson

N. Sears
R. Battin
H. Lanning
E. Hall



The Charles Stark Draper Laboratory

68 Albany Street, Cambridge, Massachusetts 02139 Telephone (617) 864-6900

23M- 19 - 72

To: Phil Felleman
From: Ken Goodwin
Date: April 5, 1972
Subject: ASPO 45 Schedule

ALL TIMES CST

<u>Date</u>	<u>0000 to 0800</u>	<u>0800 to 1600</u>	<u>1600 to 2400</u>	<u>Event</u>
Sun 16 April		Lawton	/Goodwin	Launch & TLI
Mon 17 April	Reasor	Lawton	Goodwin	MCC#2
Tues 18 April	Reasor	Lawton	Goodwin	MCC#3
Wed 19 April	Reasor	Lawton	Cook/Olsson	LOI
Thurs 20 April	Reasor	Gilbert/Goodwin	Olsson/Cook	DESCENT
Fri 21 April	Lawton	Goodwin	Reasor	EVA#2
Sat 22 April	Lawton	Goodwin	Reasor	EVA#3
Sun 23 April	Lawton	Gilbert/Goodwin	Reasor	ASCENT
Mon 24 April	Lawton	Gilbert	Reasor	PLANE CHANGE
Tues 25 April	Goodwin	Reasor	Lawton	TEI
Wed 26 April	Goodwin	Reasor	Lawton	EVA
Thurs 27 April	Goodwin	Reasor	Lawton	MCC#6
Fri 28 April	Goodwin	Reasor	Lawton	ENTRY

Personnel and Phone Numbers (AC 713)

Tony Cook	9-944-0241	Distribution:
Rom Gilbert	9-333-3000	MIT/KSC
Ken Goodwin	9-623-8368	MIT/MSD (10)
Tom Lawton	9-334-2040	G. Edmonds
Ed Olsson	9-488-5606	B. Werner (2)
George Reasor	9-534-4723	R. Lones
George Silver	9-488-6540	C. Finch EG7
Cambridge	87-617-865-7336	
ASPO 45	483-3451	
MIT/SPAN	483-6134	
AGC	483-5666	
MIT Office (Mary)	483-4807	

APOLLO 16 SCAMA COMMUNICATORS

DATE	0800-1600	1600-2400	2400-0800
Sunday	4/16/72 Werner	McOuat	Prince
Monday	4/17/72 Kido	Grace	Woolsey
Tuesday	4/18/72 Werner	McOuat	Prince
Wednesday	4/19/72 Kido	Grace	Woolsey
Thursday	4/20/72 Werner	McOuat	Prince
Friday	4/21/72 Kido	Grace	Woolsey
Saturday	4/22/72 Werner	McOuat	Prince
Sunday	4/23/72 Kido	Grace	Woolsey
Monday	4/24/72 Werner	McOuat	Prince
Tuesday	4/25/72 Kido	Grace	Woolsey
Wednesday	4/26/72 Werner	McOuat	Prince
Thursday	4/27/72 Kido	Grace	Woolsey
Friday	4/28/72 Werner	/ / /	/ / /

Hardware Specialists (require access to front half)

TABLE II

<u>G&N System</u>	<u>Office</u>	<u>Home Phone</u>
Lones, Robert	821-529	664-2753
Edmonds, George	821-577	864-8942
Grace, Ed	821-201	456-3526
Laats, Ain	6414	729-8896
Harrison, Jim	821-270	924-1332
<u>ISS and Inertial Components</u>		
Gilmore, Jerry - General*	821-271	527-4642
McKern, Dick	821-275	449-0339
Lory, Charles	821-272	527-7205
Feldman, Julius - GYRO	821-256	244-4839
Bukow, George - ACCELEROMETERS	821-254	963-7479
Booth, Bob	821-277	285-3569
<u>Optics</u>		
Karthas, George*	821-512	332-7642
Yorgy, Larry - SERVO	821-322	922-1714
Parr, Tom - ONBOARD NAVIGATION	821-331	484-2065
<u>PSA, PAS and CDU Electronics</u>		
Cushing, Ray*	821-556	887-8670
<u>Thermal</u>		
Hickey, Ed*	821-405	785-0850
Jurglewicz, Charles	821-422	769-1005
Katz, Bert	821-521	277-5682
<u>Computer</u>		
Hall, Eldon*	821-471	326-8526
Hopkins, Al	821-451	868-4898
Bowler, Don	821-473	924-2394

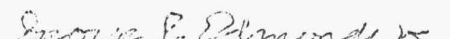
* Principle Contacts

TABLE II (Cont'd)

<u>Radar</u>	<u>Office</u>	<u>Home Phone</u>
Johnson, Leonard*	821-567	749-0085
Tanner, Walter	821-333	358-7909
Saltzberg, William	821-568	899-1822
Blanchard, Earl	821-322	843-2279

*Principle Contacts


R. Lones
System Test Group


George P. Edmonds, Jr.
System Test Group

Distribution:

E. Grace
W. Prince
V. Megna
M. Adams
J. Harrison
D. Hoag
J. Gilmore
P. Heinemann
G. Cox
L. Johnson
G. Bukow
R. Sheridan
J. St. Amand
I. Johnson
MIT at KSC/MSC
J. Suomala
D. Dolan (Central Files)
R. Werner
G. Edmonds
R. Lones
A. Laats

R. McKern
G. Karthas
K. Kido
S. Copps
J. Lawrence
K. Goodwin
C. Lorgy
P. Felleman
G. Silver
J. Feldman
L. Yorgy
T. Parr
R. Cushing
E. Hickey
C. Jurgelewicz
B. Katz
E. Hall
A. Hopkins
D. Grief
N. Sears
R. Booth
H. McQuat
W. Woolsey

APOLLO 16 MAJOR EVENTS

<u>EVENT</u>	<u>DATE/TIME (CENTRAL STANDARD)</u>		<u>GET</u>
Launch	April 16	11:54	00:00
TLI	April 16	15:53	03:59
MCC-1	April 16	23:33	11:39
MCC-2	April 17	18:33	30:39
MCC-3	April 18	16:23	52:29
MCC-4	April 19	09:23	69:29
Lunar Orbit Insertion	April 19	14:23	74:29
Descent Orbit Insertion	April 19	18:30	78:36
Undocking	April 20	12:08	96:14
CSM Circularization	April 20	13:36	97:42
Powered Descent	April 20	14:29	98:35
EVA-1 (7 hrs)	April 20	18:19	102:25
EVA-2 (7 hrs)	April 21	16:44	124:50
EVA-3 (7 hrs)	April 22	16:19	148:25
CSM Lunar Plane Change -1	April 22	20:23	152:29
Ascent	April 23	15:39	171:45
Docking	April 23	17:34	173:50
CSM Lunar Plane Change -2	April 24	13:08	198:14
Trans-Earth Insertion	April 25	18:15	222:21
Trans-Earth EVA	April 26	13:49	241:55
MCC-5	April 26	11:15	239:21
MCC-6	April 27	16:17	268:23
MCC-7	April 28	11:17	287:23
Splashdown	April 28	14:30	290:36

APOLLO 16 SPAN SUPPORT

	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI
	16	17	18	19	20	21	22	23	24	25	26	27	28
0800- 1600	SC	SC	PF	GS	RL	SC	PF	GS	RL	SC	PF	GS	RL
1600- 2400	HOAG	RL	SC	PF	GS	RL	SC	PF	GS	RL	SC	PF	—
0000- 0800	LANTON PF	GS	RL	SC	PF	GS	RL	SC	PF	GS	RL	SC	—

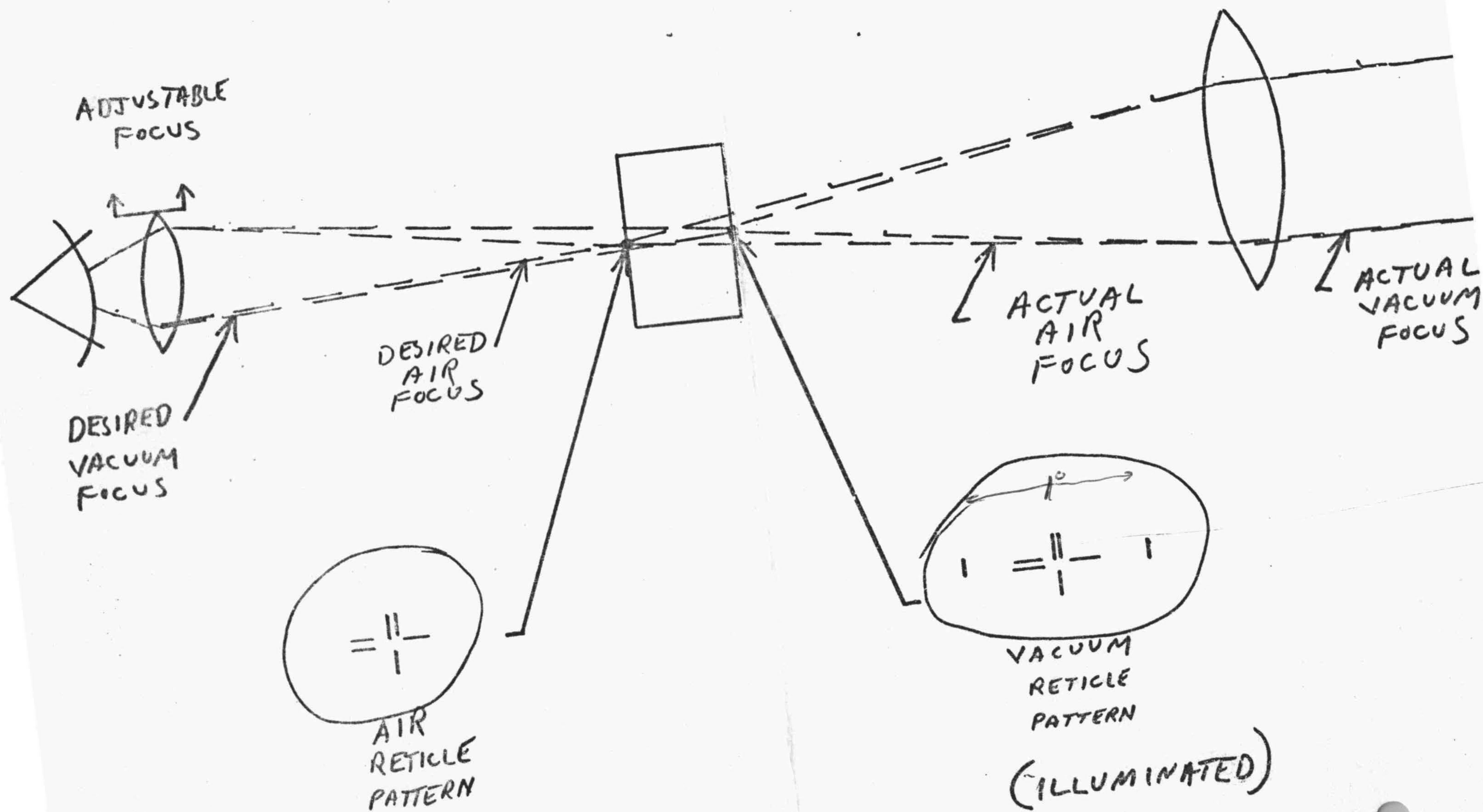
SC - STEVE COPPS
 RL - RUSS LARSON
 GS - GEORGE SILVER
 PF - PHIL FELLEMAN

4/6/72

OPTICS DEBRIEFING

1. We think we have an explanation for the P23 SXT inverted image at 9 hours. It is probably caused by a unique set of geometry conditions. We are continuing to look at this.
2. In regard to the backing off of the eye guard, we would like Ken to demonstrate his procedure for using the locking rings for the SCT and SXT.
3. Like to talk about focussing problems. Handle each instrument separately.
 - a. SCT - Would you elaborate on the exact focusing problem. Couldn't focus, wouldn't hold focus, or inconvenient to focus.
 - b. SXT - Read comment on page 6-5. Have Ken demonstrate his procedure to focus SXT on the reticle.
4. Clarify red dot in SXT at 176 hours in Flight Plan.
 - Any movement with respect to reticle and SXT motion.
 - Reticle intensity.
 - Number of times red dot was seen in flight.
5. Noisy OUA and jerky motion.
 - a. Clarify optics configuration when jerky motion was observed.
 - b. What were you looking at to detect jerkiness. (SXT, SCT, TPAC?)
 - GET
 - Sh. & Trunn. angles
 - RPM - noise

OVA SXT FOCUS



CM 113

3-29-72

APOLLO 16

CDDT

PO2

EST TIME	OGA	IGA	MGA
04:59	16.37	90.16	359.96
05:00	162.37	90.08	359.98
05:02	162.37	89.97	0.02
05:05	162.37	89.96	0.03
05:10	162.35	89.95	0.03
05:15	.25	.95	.02
05:20	.14	.92	.03
05:25	.04	.93	.02
05:30	161.98	.96	.02
05:40	.88	.96	.03
06:00	.87	.96	.03
06:15	.87	.96	.03
06:30	.87	.96	.03
06:45	.88	.96	.03
07:00	161.87	89.96	0.03
07:15	.87	.96	.03
07:30	.88	.96	.03
07:31	.83	.96	.03
07:35	.88	.96	.03
07:40	.88	.96	.03
07:45	.87	.96	.03
08:00	161.87	89.96	0.03
08:01	.87	.96	.03
08:15	.87	.96	.03
08:30	.87	.96	.03
08:32	.87	.95	.03
08:45	.87	.96	.03
09:00	.87	.96	.03

PO2 start

CPU DEC. 16490 83.99 0.00

TARG1

+253.19

-2.011

TARG2

+291.18

-2.016

7:25 OPERES ON

① -.009 +.007 +.024 N93

② -.006 +.010 +.028 N93

③ -.009 +.007 +.024 N93

④ -.006 +.010 +.034 N93

⑤ -.001 +.010 +.034 N93

⑥ -.001 +.010 +.034 N93

Block II/LM

DATA SHEET IMU PERFORMANCE TEST

G&N SYSTEM <u>216</u>	SPACECRAFT <u>113</u>	DATE <u>3-28-76</u>
TEST LOCATION <u>LC-39H</u>	TIME OF TEST <u>1204</u> ZULU	TCP NO. <u>0001-0007</u>

A. Record the following test data:

TIME (Z)	POSITION (R3)	QUANTITY	LINE	DISPLAY
<u>1216</u>	1	+ NBDY-ADOAY	1	⊕ _ _ 1.10
<u>1239</u>	2	+ NBDZ-ADOAZ	2	⊕ _ _ 2.20
<u>1302</u>	2	-X PIPA G	3	⊕ _ 979.47368
<u>1357</u>	2	-NBDX + ADIAX	4	⊕ _ 10.35
<u>1416</u>	3	+NBDX - ADOAX	5	⊕ _ 1.27
<u>1458</u>	4	+NBDY + ADSRAY	6	⊕ _ 12.37
<u>1503</u>	4	-Z PIPA G	7	⊕ _ 979.70618
<u>1515</u>	4	+NBDZ + ADIAZ	8	⊕ _ 13.98
<u>1621</u>	5	+Y PIPA G	9	⊕ _ 981.66492
<u>1654</u>	6	-Y PIPA G	10	⊕ _ 979.33344
<u>1638</u>	7	-NBDX + .707 ADSRAX- .707 ADOAX	11	⊕ _ 5.55
<u>1700</u>	8	.707 (-NBDZ - NBDY) + .5 (ADSRAY+ADSRAX+ADIAZ-ADIAZ)	12	⊕ _ 3.30
<u>1722</u>	9	-NBDZ+.707ADSRAX-.707ADOAZ	13	⊕ _ 1.71
<u>1745</u>	10	.707 (NBDY-NBDX) + .5 (ADIAZ-ADIAZ+ADSRAX+ADOAY)	14	⊕ _ 12.45
<u>1807</u>	11	-NBDX - ADOAX	15	⊕ _ 2.14
	11	+Z PIPA G	16	⊕ _ 979.47931
	12	NBDY + ADOAY	17	⊕ _ 0.43
	12	+X PIPA G	18	⊕ _ 979.47828
	13	NBDZ + ADOAZ	19	⊕ _ 2.14

IMU PERFORMANCE CRITERIA

VEHICLE NO.		CST NO.		IMU NO.		DATE		
CM 113		216		29		3-28-72		
PROCEDURE		LOCATION				TIME		
0007 CDDT		LC-39A				1216Z START		
CALCULATION IDENTIFIER	PARAMETER	Xi-3	Xi-2	Xi-1	Xi	D1	D2	D3
01	SFx	-253	-254	-280	-266	14	40	41
02	SFy	-1276	-1279	-1304	-1320	16	41	44
03	SFz	-464	-379	-369	-396	27	37	122
04	Bias x	-0.12	-0.04	-0.03	0	.03	.04	.12
05	Bias y	1.11	1.15	1.17	1.17	0	.02	.06
06	Bias z	-0.45	-0.15	-0.11	-0.11	0	.04	.34
07	NBDx	-2.4	-2.0	-1.3	-1.7	.4	1.1	1.5
08	NBDy	0.3	0.1	-2.0	0.7	2.7	4.8	5.0
09	NBDz	-1.7	-1.3	-2.7	-2.1	.6	2.0	2.4
10	ADOAx	-0.4	-0.5	-0.5	-.4			
11	ADOZy	-0.3	-0.1	0.5	-.3			
12	ADOAz	0.2	0.3	0.2	0			
13	ADSRAx	-11.0	-11.8	-10.6	-10.7	.1	1.3	2.1
14	ADSRAy	-15.0	-13.3	-11.3	-13.1	1.8	3.8	5.5
15	ADSRAz	-5.7	-5.0	-5.0	-5.4	.4	.4	1.1
16	ADIAx	7.8	5.8	9.0	8.5	.5	3.7	5.7
18	ADIAz	14.4	14.1	15.5	16.1	.6	2.1	2.4
17	ADIAy (x) Pos 10	-6.6	-8.2	-6.8	-8.8	2.0	3.4	5.0
19	ADIAy (x) Pos 8	-1.6	-7.5	-3.5	-7.0	3.5	7.5	13.4