



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

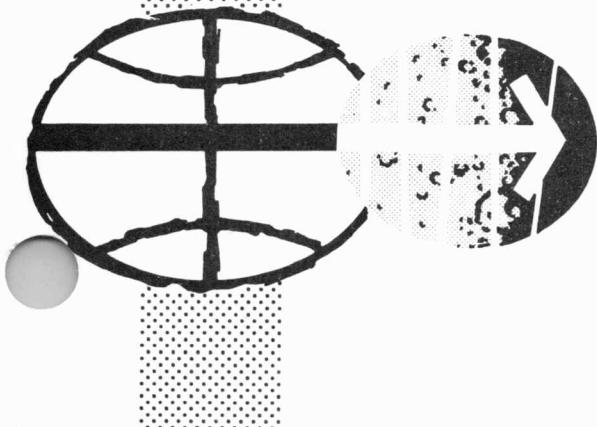
APOLLO 17
ALL LAUNCH DATES

BASIC

CSM UPDATES

PREPARED BY

FLIGHT PLANNING BRANCH
CREW PROCEDURES DIVISION



MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AUGUST 7, 1972

APOLLO 17

CSM UPDATES

AUGUST 7, 1971

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It is requested that any organization having comments, questions, or suggestions concerning this document contact T. F. Barton, TRW Task 81, Building 4, room 265, telephone 483-3953.

This document is under the configuration control of the Crew Procedures Control Board (CPCB). All proposed changes should be submitted to the Apollo Flight Data File Manager, T. W. Holloway, CG5, Building 4, room 230, telephone 483-4271.

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APOLLO 17

CSM UPDATES

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Basic 8/7/72

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P30 MANEUVER

DATE 8/7/72

SET STARS		PURPOSE	
R ALIGN		+ WT	Z47
P ALIGN		0 P TRIM	Z48
Y ALIGN		0 Y TRIM	
ULLAGE		+ HRS	GETI
		0 MIN	N33
		0 SEC	
		X ΔV_X	Z81
		X ΔV_Y	
		X ΔV_Z	
HORIZON/WINDOW		X R	
		X P	
		X Y	
		+ H_A	Z44
		X H_P	
		+ ΔVT	
		X BT	
		X ΔVC	
		X SXTS	
		+ SFT	
		+ TRN	
		X BSS	
		X SPA	
		X SXP	
OTHER	0	LAT	N61
		LONG	
	+	RTGO	EMS
	+	V10	
		GET	0.05G

P30 MANEUVER

P30 MANEUVER

SET STARS				PURPOSE
R ALIGN		+ 0 0 0		WT N47
P ALIGN		+ 0 0 0		P TRIM N48
Y ALIGN		+ 0 0 0		Y TRIM
		+ 0 0 0		HRS GETI
		+ 0 0 0		MIN N33
		+ 0 0 0		SEC
ULLAGE				ΔV_X N81
		X X X		ΔV_Y
		X X X		ΔV_Z
		X X X		R
		X X X		P
		X X X		Y
		+ 0 0 0		H_A N44
		+ 0 0 0		H_P
		+ 0 0 0		ΔV_T
HORIZON/WINDOW				BT
		X X X		ΔV_C
		X X X		SXTS
		X X X X		SFT
		+ 0 0 0	0	TRN
		+ 0 0 0	0 0	BSS
		X X X		SPA
		X X X		SXP
OTHER				LAT N61
		0 0 0		LONG
		+ 0 0 0		RTGO EMS
		+ 0 0 0		V10
		+ 0 0 0		GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS				PURPOSE
R ALIGN		X		PROP/GUID
P ALIGN	+	0 0	WT N47	
Y ALIGN		0 0	P TRIM N48	
		0 0	Y TRIM	
ULLAGE	+	0 0	HRS GETI	
	+	0 0 0	MIN N33	
	+	0	SEC	
HORIZON/WINDOW			ΔV_X N81	
			ΔV_Y	
			ΔV_Z	
OTHER	X X X		R	
	X X X		P	
	X X X		Y	
	+		H_A N44	
			H_P	
	+		ΔVT	
	X X X		BT	
	X		ΔVC	
	X X X X		SXTS	
	+	0	SFT	
	+	0 0	TRN	
	X X X		BSS	
	X X		SPA	
	X X X		SXP	
	0		LAT N61	
			LONG	
	+		RTGO EMS	
	+		V10	
			GET 0.05G	

P30 MANEUVER

SET STARS					PURPOSE
					PROP/GUID
+					WT N47
R ALIGN		0 0		.	P TRIM N48
P ALIGN		0 0		.	Y TRIM
Y ALIGN		+ 0 0			HRS GETI
		+ 0 0 0			MIN N33
		+ 0		.	SEC
ULLAGE				.	ΔV_X N81
				.	ΔV_Y
				.	ΔV_Z
	X X X				R
	X X X				P
	X X X				Y
	+			.	H_A N44
				.	H_P
	+			.	ΔV_T
HORIZON/WINDOW	X X X		.	.	BT
	X			.	ΔV_C
	X X X X				SXTS
	+		.	0	SFT
	+		0	0	TRN
	X X X				BSS
	X X				SPA
	X X X				SXP
OTHER		0		.	LAT N61
				.	LONG
	+			.	RTGO EMS
	+			.	V10
					GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS		PURPOSE	
	/	PROP/GUID	
+		WT N47	
R ALIGN	0 0	P TRIM N48	
P ALIGN	0 0	Y TRIM	
Y ALIGN	+ 0 0	HRS GETI	
	+ 0 0 0	MIN N33	
	+ 0	SEC	
ULLAGE		ΔV_X N81	
		ΔV_Y	
		ΔV_Z	
	X X X	R	
	X X X	P	
	X X X	Y	
	+ H _A	N44	
	+ H _P		
	+ ΔV_T		
HORIZON/WINDOW	X X X	BT	
	X	ΔV_C	
	X X X X	SXTS	
	+ 0	SFT	
	+ 0 0	TRN	
	X X X	BSS	
	X X	SPA	
	X X X	SXP	
OTHER	0	LAT N61	
		LONG	
	+ RTGO	EMS	
	+ V10		
		GET 0.05G	

P30 MANEUVER

SET STARS					PURPOSE
R ALIGN	—	+	0 0	WT N47	PROP/GUID
P ALIGN	—	+	0 0	P TRIM N48	
Y ALIGN	—	+	0 0	Y TRIM	
		+	0 0 0	HRS GETI	
		+	0	MIN N33	
		+		SEC	
ULLAGE	—			ΔV_X N81	
	—			ΔV_Y	
	—			ΔV_Z	
	—	X X X		R	
	—	X X X		P	
	—	X X X		Y	
	—	+		H_A N44	
	—	+		H_P	
	—	+		ΔV_T	
HORIZON/WINDOW	—	+	0	BT	
	—	+	0	ΔV_C	
	—	X X X X		SXTS	
	—	+	0	SFT	
	—	+	0 0	TRN	
	—	X X X		BSS	
	—	X X		SPA	
	—	X X X		SXP	
OTHER	—	0		LAT N61	
	—			LONG	
	—	+		RTGO EMS	
	—	+		V10	
	—			GET 0.05G	

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS	X	PURPOSE	
R ALIGN	+	WT	N47
P ALIGN	0 0	P TRIM	N48
Y ALIGN	0 0	Y TRIM	
ULLAGE	+ 0 0	HRS GETI	
	+ 0 0 0	MIN N33	
	+ 0	SEC	
HORIZON/WINDOW	X X X	ΔV_X	N81
	X X X	ΔV_Y	
	X X X	ΔV_Z	
	+ H A	R	
	+ H P	P	
	+ ΔV_T	Y	
OTHER	X X X	BT	
	X	ΔV_C	
	X X X X	SXTS	
	+ 0	SFT	
	+ 0 0	TRN	
	X X X	BSS	
	X X	SPA	
	X X X	SXP	
	0	LAT N61	
		LONG	
	+	RTGO EMS	
	+	V10	
		GET 0.05G	

P30 MANEUVER

SET STARS		X	PURPOSE
R ALIGN	+		PROP/GUID
P ALIGN		0 0	WT N47
Y ALIGN		0 0	P TRIM N48
	+	0 0	Y TRIM
ULLAGE	+	0 0 0	HRS GETI
	+	0	MIN N33
			SEC
			ΔV_X N81
			ΔV_Y
			ΔV_Z
	X	X X	R
	X	X X	P
	X	X X	Y
HORIZON/WINDOW	+		H_A N44
			H_P
	+		ΔV_T
	X	X X	BT
	X		ΔV_C
	X	X X X	SXTS
	+		SFT
	+	0	TRN
	X	X X	BSS
	X	X	SPA
	X	X X	SXP
OTHER	0		LAT N61
			LONG
	+		RTGO EMS
	+		V10
			GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS			PURPOSE
R ALIGN	/		PROP/GUID
P ALIGN	+	WT N47	
Y ALIGN	0 0	P TRIM N48	
	0 0	Y TRIM	
	+ 0 0	HRS GETI	
	+ 0 0 0	MIN N33	
	+ 0	SEC	
ULLAGE		ΔV_X N81	
		ΔV_Y	
		ΔV_Z	
	X X X	R	
	X X X	P	
	X X X	Y	
	+ H_A	N44	
	+ H_P		
	+ ΔV_T		
HORIZON/WINDOW	X X X	BT	
	X	ΔV_C	
	X X X X	SXTS	
	+ 0	SFT	
	+ 0 0	TRN	
	X X X	BSS	
	X X	SPA	
	X X X	SXP	
OTHER	0	LAT N61	
		LONG	
	+ RTGO EMS		
	+ V10		
		GET 0.05G	

P30 MANEUVER

SET STARS				PURPOSE
R ALIGN	+	0 0	.	PROP/GUID WT N47
P ALIGN		0 0	.	P TRIM N48 Y TRIM
Y ALIGN	+	0 0	.	HRS GETI
	+	0 0 0	.	MIN N33
	+	0	.	SEC
ULLAGE			.	ΔV_X N81
			.	ΔV_Y
			.	ΔV_Z
	X X X			R
	X X X			P
	X X X			Y
	+		.	H_A N44
			.	H_P
	+		.	ΔV_T
HORIZON/WINDOW	X X X		.	BT
	X		.	ΔV_C
	X X X X			SXTS
	+		0	SFT
	+		0 0	TRN
	X X X			BSS
	X X			SPA
	X X X			SXP
OTHER	0		.	LAT N61
			.	LONG
	+		.	RTGO EMS
	+		.	V10
				GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS				PURPOSE
R ALIGN		X		PROP/GUID
P ALIGN	+			WT N47
Y ALIGN	0 0		•	P TRIM N48
	0 0		•	Y TRIM
ULLAGE	+ 0 0			HRS GETI
	+ 0 0 0			MIN N33
	+ 0		•	SEC
HORIZON/WINDOW	X X X			ΔV_X N81
	X X X			ΔV_Y
	X X X		•	ΔV_Z
	X X X			R
	X X X			P
	X X X			Y
	+ H _A		•	N44
	H _P		•	
OTHER	+ ΔV_T		•	
	X X X		•	BT
	X		•	ΔV_C
	X X X X			SXTS
	+ SFT		0	
	+ TRN		0 0	
	X X X			BSS
	X X		•	SPA
	X X X		•	SXP
	0		•	LAT N61
			•	LONG
	+ RTGO		•	EMS
	+ V10		•	
			•	GET 0.05G

P30 MANEUVER

SET STARS			PURPOSE
R ALIGN	+	/	PROP/GUID
P ALIGN	0 0	.	WT N47
Y ALIGN	0 0	.	P TRIM N48
	+ 0 0	.	Y TRIM
	+ 0 0 0	.	HRS GETI
	+ 0	.	MIN N33
		.	SEC
ULLAGE		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
	X X X	.	R
	X X X	.	P
	X X X	.	Y
	+ H_A	.	N44
	+ H_P	.	
		.	ΔV_T
HORIZON/WINDOW	X X X	.	BT
	X	.	ΔV_C
	X X X X	.	SXTS
	+ 0	0	SFT
	+ 0 0	.	TRN
	X X X	.	BSS
	X X	.	SPA
	X X X	.	SXP
OTHER	0	.	LAT N61
		.	LONG
	+ RTGO	.	EMS
	+ V10	.	
		.	GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS			PURPOSE
R ALIGN	+		WT N47
P ALIGN	0 0	•	P TRIM N48
Y ALIGN	0 0	•	Y TRIM
	+ 0 0		HRS GETI
	+ 0 0 0		MIN N33
	+ 0	•	SEC
ULLAGE		•	ΔV_X N81
		•	ΔV_Y
		•	ΔV_Z
	X X X		R
	X X X		P
	X X X		Y
	+ H A		N44
	+ H P		
		•	ΔV_T
HORIZON/WINDOW	X X X	•	BT
	X	•	ΔV_C
	X X X X		SXTS
	+ 0	•	SFT
	+ 0 0	0	TRN
	X X X		BSS
	X X		SPA
OTHER	X X X	•	SXP
	0	•	LAT N61
		•	LONG
	+ RTGO		EMS
	+ V10		
		•	GET 0.05G
		•	
		•	

P30 MANEUVER

SET STARS		PURPOSE
R ALIGN	+	WT N47
P ALIGN	0 0	P TRIM N48
Y ALIGN	0 0	Y TRIM
ULLAGE	+ 0 0	HRS GETI
	+ 0 0 0	MIN N33
	+ 0	SEC
		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
	+ H A	N44
	+ H P	
	+ ΔV_T	
	X X X	BT
HORIZON/WINDOW	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
	X X X	SXP
OTHER	0	LAT N61
		LONG
	+ RTGO	EMS
	+ V10	
		GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS				PURPOSE
	X	Y	Z	
R ALIGN	+			WT N47
P ALIGN	0 0			P TRIM N48
Y ALIGN	0 0			Y TRIM
	+ 0 0			HRS GETI
	+ 0 0 0			MIN N33
	+ 0			SEC
ULLAGE				ΔV_X N81
				ΔV_Y
				ΔV_Z
	X X X			R
	X X X			P
	X X X			Y
	+ H _A			N44
	H _P			
	+ ΔV_T			
HORIZON/WINDOW	X X X			BT
	X			ΔV_C
	X X X X			SXTS
	+ 0			SFT
	+ 0 0			TRN
	X X X			BSS
	X X			SPA
	X X X			SXP
OTHER	0			LAT N61
				LONG
	+ RTGO			EMS
	+ V10			
				GET 0.05G

P30 MANEUVER

SET STARS				PURPOSE
R ALIGN	-----	+	/	PROP/GUID
P ALIGN	-----	0 0	.	WT N47
Y ALIGN	-----	0 0	.	P TRIM N48
		+	0 0	Y TRIM
		+	0 0 0	HRS GETI
		+	0	MIN N33
				SEC
ULLAGE	-----		.	ΔV_X N81
			.	ΔV_Y
			.	ΔV_Z
		X X X		R
		X X X		P
		X X X		Y
		+	.	H_A N44
			.	H_P
		+	.	ΔV_T
HORIZON/WINDOW	-----	X X X	.	BT
		X	.	ΔV_C
		X X X X		SXTS
		+	0	SFT
		+	0 0	TRN
		X X X		BSS
		X X		SPA
		X X X		SXP
OTHER	-----	0	.	LAT N61
			.	LONG
		+	.	RTGO EMS
		+	.	V10
				GET 0.05G

DATE 8/7/72



P30 MANEUVER

DATE 8/7/72

SET STARS			PURPOSE
R ALIGN	+		WT N47
P ALIGN	0 0	•	P TRIM N48
Y ALIGN	0 0	•	Y TRIM
	+ 0 0		HRS GETI
	+ 0 0 0		MIN N33
	+ 0	•	SEC
ULLAGE		•	ΔV_X N81
		•	ΔV_Y
		•	ΔV_Z
	X X X		R
	X X X		P
	X X X		Y
	+ H _A	•	N44
	H _P	•	
	+ ΔV_T		
HORIZON/WINDOW	X X X	•	BT
	X	•	ΔV_C
	X X X X		SXTS
	+ 0	•	SFT
	+ 0 0	0	TRN
	X X X		BSS
	X X		SPA
OTHER	X X X	•	SXP
	0	•	LAT N61
		•	LONG
	+ RTGO	•	EMS
	+ V10	•	
		•	GET 0.05G



P30 MANEUVER

SET STARS		PURPOSE
R ALIGN	+	PROP/GUID
P ALIGN	0 0	WT N47
Y ALIGN	0 0	P TRIM N48
	+ 0 0	Y TRIM
	+ 0 0 0	HRS GETI
	+ 0	MIN N33
		SEC
ULLAGE		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
	+ H A	N44
	+ H P	
		ΔV_T
HORIZON/WINDOW	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
	X X X	SXP
OTHER	0	LAT N61
		LONG
	+ RTGO	EMS
	+ V10	
		GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS			PURPOSE
R ALIGN	/		PROP/GUID
P ALIGN	+		WT N47
Y ALIGN	0 0	.	P TRIM N48
	0 0	.	Y TRIM
ULLAGE	+ 0 0		HRS GETI
	+ 0 0 0		MIN N33
	+ 0	.	SEC
HORIZON/WINDOW		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
OTHER	X X X		R
	X X X		P
	X X X		Y
	+ H_A		N44
	H_P		
	+ ΔV_T		
	BT		
	ΔV_C		
	X X X X	0	SXTS
	+ SFT		
	+ TRN		
	X X X		BSS
	X X		SPA
	X X X	.	SXP
	0	.	LAT N61
		.	LONG
	+ RTGO EMS		
	+ V10		
		.	GET 0.05G

P30 MANEUVER

SET STARS										PURPOSE
	PROP/GUID			WT N47			P TRIM N48			
R ALIGN	0 0			Y TRIM			HRS GETI			
P ALIGN	0 0			MIN N33			SEC			
Y ALIGN	0 0 0			△V X N81			△V Y			
ULLAGE	0			△V Z			R			
	X	X	X	P			Y			
	X	X	X	H A N44			H P			
	X	X	X	△VT			BT			
HORIZON/WINDOW	X			△VC			SXTS			
	X	X	X	SFT			TRN			
	X	X	X	BSS			SPA			
	X	X	X	SXP			LAT N61			
OTHER	0			LONG			RTGO EMS			
	+ 0			V10			GET 0.05G			

DATE 8/7/72



P30 MANEUVER

DATE 8/7/72

SET STARS				PURPOSE
	X			
R ALIGN	+			WT N47
P ALIGN	0 0			P TRIM N48
Y ALIGN	0 0			Y TRIM
	+ 0 0			HRS GETI
	+ 0 0 0			MIN N33
	+ 0			SEC
ULLAGE				ΔV_X N81
				ΔV_Y
				ΔV_Z
	X X X			R
	X X X			P
	X X X			Y
	+ H _A			N44
	H _P			
	+ ΔV_T			
HORIZON/WINDOW	X X X			BT
	X			ΔV_C
	X X X X			SXTS
	+ 0			SFT
	+ 0 0			TRN
	X X X			BSS
	X X			SPA
	X X X			SXP
OTHER	0			LAT N61
				LONG
	+ RTGO			EMS
	+ V10			
				GET 0.05G



P30 MANEUVER

SET STARS		PURPOSE
R ALIGN	X	PROP/GUID
P ALIGN	+	WT N47
Y ALIGN	0 0	P TRIM N48
	0 0	Y TRIM
ULLAGE	+	HRS GETI
	0 0 0	MIN N33
	0	SEC
		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
HORIZON/WINDOW	+	H_A N44
		H_P
		ΔV_T
	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+	SFT
	+	TRN
OTHER	0	BSS
	0 0	SPA
	X X X	SXP
	0	LAT N61
		LONG
	+	RTGO EMS
	+	V10
		GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS			PURPOSE
R ALIGN	+	/	PROP/GUID
P ALIGN	0 0	.	WT N47
Y ALIGN	0 0	.	P TRIM N48
	+ 0 0	.	Y TRIM
ULLAGE	+ 0 0 0	.	HRS GETI
	+ 0	.	MIN N33
		.	SEC
		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
	X X X	.	R
	X X X	.	P
	X X X	.	Y
	+ .	.	H_A N44
		.	H_P
	+ .	.	ΔV_T
HORIZON/WINDOW	X X X	.	BT
	X	.	ΔV_C
	X X X X	0	SXTS
	+ .	0	SFT
	+ .	0 0	TRN
	X X X	.	BSS
	X X	.	SPA
	X X X	.	SXP
OTHER	0	.	LAT N61
		.	LONG
	+ .	.	RTGO EMS
	+ .	.	V10
		.	GET 0.05G

P30 MANEUVER

SET STARS		PURPOSE
R ALIGN	+	PROP/GUID
P ALIGN	0 0	WT N47
Y ALIGN	0 0	PTIM N48
	0 0	Y TRIM
ULLAGE	+ 0 0 0	HRS GET1
	+ 0	MIN N33
		SEC
		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
HORIZON/WINDOW	+ H _A H _P	N44
		ΔV_T
	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
	X X X	SXP
OTHER	0	LAT N61
		LONG
	+	RTGO EMS
	+	V10
		GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS			PURPOSE
R ALIGN	+	/	PROP/GUID
P ALIGN	0 0	.	WT N47
Y ALIGN	0 0	.	P TRIM N48
	+ 0 0	.	Y TRIM
	+ 0 0 0	.	HRS GET1
	+ 0	.	MIN N33
		.	SEC
ULLAGE		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
	X X X	.	R
	X X X	.	P
	X X X	.	Y
	+ H_A	.	N44
	H_P	.	
	+ ΔV_T	.	
HORIZON/WINDOW	X X X	.	BT
	X	.	ΔV_C
	X X X X	.	SXTS
	+ 0	.	SFT
	+ 0 0	.	TRN
	X X X	.	BSS
	X X	.	SPA
	X X X	.	SXP
OTHER	0	.	LAT N61
		.	LONG
	+ RTGO	.	EMS
	+ V10	.	
		.	GET 0.05G

P30 MANEUVER

SET STARS			PURPOSE
	/		PROP/GUID
+			WT N47
R ALIGN	0 0	.	P TRIM N48
P ALIGN	0 0	.	Y TRIM
Y ALIGN	+ 0 0		HRS GETI
	+ 0 0 0		MIN N33
	+ 0	.	SEC
ULLAGE		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
	X X X		R
	X X X		P
	X X X		Y
	+ H _A	.	N44
		.	H _P
	+ ΔV_T	.	
HORIZON/WINDOW	X X X	.	BT
	X	.	ΔV_C
	X X X X		SXTS
	+ 0	.	SFT
	+ 0 0		TRN
	X X X		BSS
	X X		SPA
	X X X	.	SXP
OTHER	0	.	LAT N61
		.	LONG
	+ RTGO		EMS
	+ V10		
		.	GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

	SET STARS			PURPOSE
	+	-	/	
R ALIGN	0	0	.	WT N47
P ALIGN	0	0	.	P TRIM N48
Y ALIGN	+ 0 0			Y TRIM
	+ 0 0 0			HRS GETI
	+ 0		.	MIN N33
			.	SEC
ULLAGE			.	ΔV_X N81
			.	ΔV_Y
			.	ΔV_Z
	X X X			R
	X X X			P
	X X X			Y
	+ .		.	H_A N44
			.	H_P
	+ .		.	ΔV_T
HORIZON/WINDOW	X X X	.	.	BT
	X		.	ΔV_C
	X X X X			SXTS
	+ .		0	SFT
	+ .		0 0	TRN
	X X X			BSS
	X X			SPA
	X X X			SXP
OTHER	0	.	.	LAT N61
			.	LONG
	+ .		.	RTGO EMS
	+ .		.	V10
				GET 0.05G

P30 MANEUVER

SET STARS			PURPOSE
R ALIGN	X		PROP/GUID
P ALIGN	+		WT N47
Y ALIGN	0 0	.	P TRIM N48
	0 0	.	Y TRIM
	+ 0 0	.	HRS GET1
	+ 0 0 0	.	MIN N33
	+ 0	.	SEC
ULLAGE		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
	X X X	.	R
	X X X	.	P
	X X X	.	Y
	+ H A	.	N44
	+ H P	.	
		.	ΔV_T
HORIZON/WINDOW	X X X	.	BT
	X	.	ΔV_C
	X X X X	0	SXTS
	+ SFT	0	
	+ TRN	0 0	
	X X X	.	BSS
	X X	.	SPA
	X X X	.	SXP
OTHER	0	.	LAT N61
		.	LONG
	+ RTGO	.	EMS
	+ V10	.	
		.	GET 0.05G

DATE 8/7/72



P30 MANEUVER

DATE 8/7/72

SET STARS				PURPOSE
		/		PROP/GUID
R ALIGN	—	+		WT N47
P ALIGN	—	0 0	•	P TRIM N48
Y ALIGN	—	0 0	•	Y TRIM
		+ 0 0		HRS GETI
		+ 0 0 0		MIN N33
		+ 0	•	SEC
ULLAGE	—		•	ΔV_X N81
	—		•	ΔV_Y
	—		•	ΔV_Z
	X X X			R
	X X X			P
	X X X			Y
	+ —		•	H_A N44
			•	H_P
	+ —		•	ΔV_T
HORIZON/WINDOW	—	X X X	•	BT
	—	X	•	ΔV_C
	—	X X X X		SXTS
	—	+ —	0	SFT
	—	+ —	0 0	TRN
	X X X			BSS
	X X			SPA
	X X X		•	SXP
OTHER	—	0	•	LAT N61
	—		•	LONG
	—	+ —		RTGO EMS
	—	+ —		V10
				GET 0.05G



P30 MANEUVER

SET STARS		PURPOSE
R ALIGN	/	PROP/GUID
P ALIGN	0 0	WT N47
Y ALIGN	0 0	P TRIM N48
	0 0	Y TRIM
ULLAGE	0 0 0	HRS GETI
	0	MIN N33
		SEC
		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
HORIZON/WINDOW	+ H _A	N44
	+ H _P	
		ΔV_T
	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
	X X X	SXP
OTHER	0	LAT N61
		LONG
	+ RTGO	EMS
	+ V10	
		GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS		X	PURPOSE
R ALIGN	+		PROP/GUID
P ALIGN	0 0	•	WT N47
Y ALIGN	0 0	•	P TRIM N48
	+ 0 0		Y TRIM
ULLAGE	+ 0 0 0		HRS GETI
	+ 0	•	MIN N33
		•	SEC
		•	ΔV_X N81
		•	ΔV_Y
		•	ΔV_Z
	X X X		R
	X X X		P
	X X X		Y
	+ H _A	•	N44
	H _P	•	
	+ ΔV_T	•	
HORIZON/WINDOW	X X X	•	BT
	X	•	ΔV_C
	X X X X	•	SXTS
	+ 0	•	SFT
	+ 0 0	•	TRN
	X X X		BSS
	X X		SPA
	X X X		SXP
OTHER	0	•	LAT N61
		•	LONG
	+ RTGO	•	EMS
	+ V10	•	
		•	GET 0.05G

P30 MANEUVER

SET STARS		PURPOSE
R ALIGN	+	PROP/GUID
P ALIGN	0 0	WT N47
Y ALIGN	0 0	P TRIM N48
	0 0	Y TRIM
ULLAGE	+ 0 0 0	HRS GETI
	+ 0	MIN N33
		SEC
		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
HORIZON/WINDOW	+ H _A H _P	N44
		ΔV_T
	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
	X X X	SXP
OTHER	0	LAT N61
		LONG
	+ RTGO EMS	V10
	+ GET 0.05G	

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS		X		PURPOSE
R ALIGN	+			PROP/GUID
P ALIGN		0 0	.	WT N47
Y ALIGN		0 0	.	P TRIM N48
	+	0 0		Y TRIM
ULLAGE	+	0 0 0		HRS GETI
	+	0	.	MIN N33
			.	SEC
			.	ΔV_X N81
			.	ΔV_Y
			.	ΔV_Z
	X	X X		R
	X	X X		P
	X	X X		Y
HORIZON/WINDOW	+		.	H_A N44
			.	H_P
	+		.	ΔVT
	X	X X	.	BT
	X		.	ΔVC
	X	X X X		SXTS
	+		0	SFT
	+		0 0	TRN
	X	X X		BSS
	X	X		SPA
	X	X X		SXP
OTHER	0		.	LAT N61
			.	LONG
	+		.	RTGO EMS
	+		.	V10
			.	GET 0.05G

P30 MANEUVER

SET STARS			PURPOSE
R ALIGN	+	/	PROP/GUID
P ALIGN	0 0	.	WT N47
Y ALIGN	0 0	.	P TRIM N48
	+ 0 0	.	Y TRIM
	+ 0 0 0	.	HRS GETI
	+ 0	.	MIN N33
		.	SEC
ULLAGE		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
	X X X	.	R
	X X X	.	P
	X X X	.	Y
	+ H_A	.	N44
	+ H_P	.	
		.	ΔV_T
HORIZON/WINDOW	X X X	.	BT
	X	.	ΔV_C
	X X X X	.	SXTS
	+ 0	.	SFT
	+ 0 0	.	TRN
	X X X	.	BSS
	X X	.	SPA
	X X X	.	SXP
OTHER	0	.	LAT N61
		.	LONG
	+ RTGO	.	EMS
	+ V10	.	
		.	GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS		PURPOSE
R ALIGN	+	WT N47
P ALIGN	0 0	P TRIM N48
Y ALIGN	0 0	Y TRIM
	+ 0 0	HRS GETI
	+ 0 0 0	MIN N33
	+ 0	SEC
ULLAGE		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
	+ 0	H_A N44
		H_P
	+ 0	ΔV_T
HORIZON/WINDOW	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
	X X X	SXP
OTHER	0	LAT N61
		LONG
	+ 0	RTGO EMS
	+ 0	V10
		GET 0.05G

P30 MANEUVER

SET STARS			PURPOSE
R ALIGN	+	/	PROP/GUID
P ALIGN	0 0	.	WT N47
Y ALIGN	0 0	.	P TRIM N48
	+ 0 0	.	Y TRIM
	+ 0 0 0	.	HRS GETI
	+ 0	.	MIN N33
		.	SEC
ULLAGE		.	ΔV_X N81
		.	ΔV_Y
		.	ΔV_Z
	X X X	.	R
	X X X	.	P
	X X X	.	Y
	+ H_A	.	N44
	+ H_P	.	
	+ ΔV_T	.	
HORIZON/WINDOW	X X X	.	BT
	X	.	ΔV_C
	X X X X	0	SXTS
	+ SFT	0	
	+ TRN	0 0	
	X X X	.	BSS
	X X	.	SPA
	X X X	.	SXP
OTHER	0	.	LAT N61
		.	LONG
	+ RTGO	.	EMS
	+ V10	.	
		.	GET 0.05G

DATE 8/7/72

P30 MANEUVER

DATE 8/7/72

SET STARS		PURPOSE
R ALIGN	+	WT N47
P ALIGN	0 0	P TRIM N48
Y ALIGN	0 0	Y TRIM
ULLAGE	+ 0 0	HRS GETI
	+ 0 0 0	MIN N33
	+ 0	SEC
HORIZON/WINDOW	X X X	ΔV_X N81
	X X X	ΔV_Y
	X X X	ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
	+ 0	H_A N44
		H_P
	+ 0	ΔV_T
	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
OTHER	X X X	SXP
	0	LAT N61
		LONG
	+ 0	RTGO EMS
	+ 0	V10
		GET 0.05G

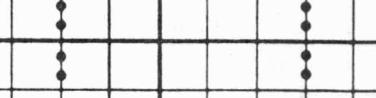
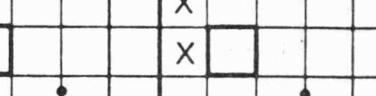
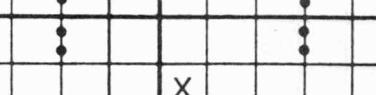
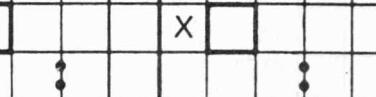
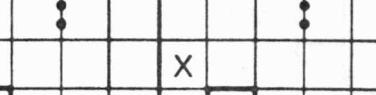
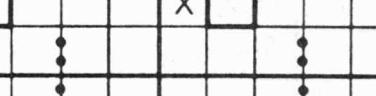
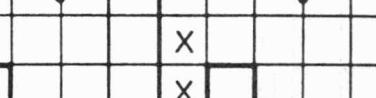
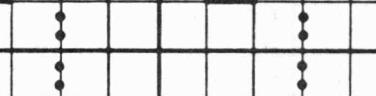
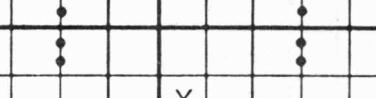
P30 MANEUVER

SET STARS		PURPOSE
R ALIGN	+	WT N47
P ALIGN	0 0	P TRIM N48
Y ALIGN	0 0	Y TRIM
	+ 0 0	HRS GETI
	+ 0 0 0	MIN N33
	+ 0	SEC
ULLAGE		ΔV_X N81
		ΔV_Y
		ΔV_Z
	X X X	R
	X X X	P
	X X X	Y
	+ H_A	N44
	+ H_P	
	+ ΔV_T	
HORIZON/WINDOW	X X X	BT
	X	ΔV_C
	X X X X	SXTS
	+ 0	SFT
	+ 0 0	TRN
	X X X	BSS
	X X	SPA
	X X X	SXP
OTHER	0	LAT N61
		LONG
	+ RTGO	EMS
	+ V10	
		GET 0.05G

DATE 8/7/72

P37 BLOCK DATA

DATE 8/7/72

	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K
	GETI ΔVT LONG GET 400K

P37 BLOCK DATA

P37 BLOCK DATA

P37 BLOCK DATA

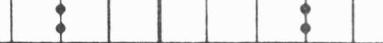
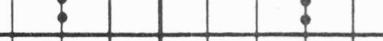
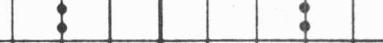
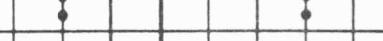
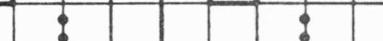
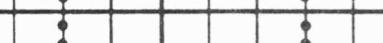
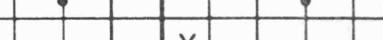
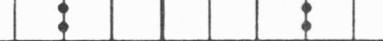
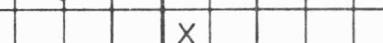
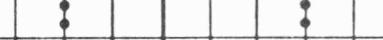
P37 BLOCK DATA P37 BLOCK DATA P37 BLOCK DATA

	GETI △VT LONG GET _{400K}

DATE 8/7/72

P37 BLOCK DATA

DATE 8/7/72

	GETI
	ΔVT
	LONG
	GET _{400K}
	GETI
	ΔVT
	LONG
	GET _{400K}
	GETI
	ΔVT
	LONG
	GET _{400K}
	GETI
	ΔVT
	LONG
	GET _{400K}
	GETI
	ΔVT
	LONG
	GET _{400K}
	GETI
	ΔVT
	LONG
	GET _{400K}
	GETI
	ΔVT
	LONG
	GET _{400K}



P37 BLOCK DATA

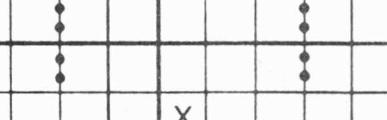
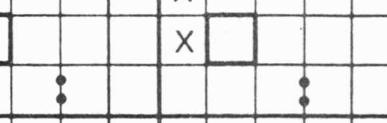
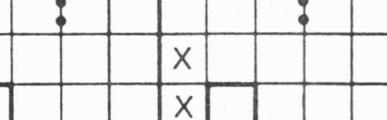
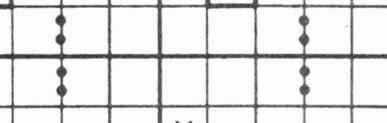
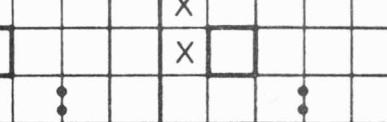
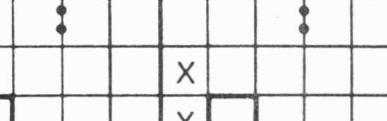
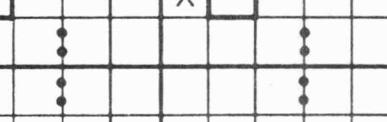
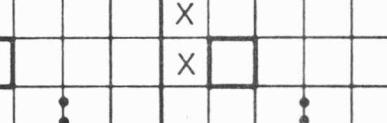
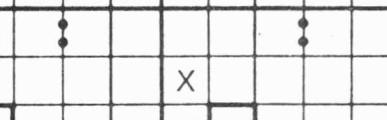
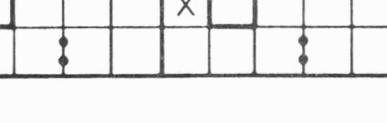
X		X		GETI
X		X		ΔVT
				LONG
				GET _{400K}
				GETI
X		X		ΔVT
X		X		LONG
				GET _{400K}
				GETI
X		X		ΔVT
X		X		LONG
				GET _{400K}
				GETI
X		X		ΔVT
X		X		LONG
				GET _{400K}
				GETI
X		X		ΔVT
X		X		LONG
				GET _{400K}
				GETI
X		X		ΔVT
X		X		LONG
				GET _{400K}
				GETI
X		X		ΔVT
X		X		LONG
				GET _{400K}

DATE 8/7/72



P37 BLOCK DATA

DATE 8/7/72

	GETI
	ΔVT
	LONG
	GET 400K
	GETI
	ΔVT
	LONG
	GET 400K
	GETI
	ΔVT
	LONG
	GET 400K

P37 BLOCK DATA

	GETI ΔVT LONG GET _{400K}
<img alt="A 10x10 grid with black dots at (1,1), (1,5), (1,9), (5,1), (5,5), (5,9), (9,1), (9,5), (9,9) and black 'X's at (2,2), (2,6), (2,8), (6	

EARTH ORBIT BLOCK DATA

DATE 8/7/72

X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C

REMARKS:

EARTH ORBIT
BLOCK DATA

EARTH ORBIT BLOCK DATA										AREA
X	X			-	X	X		-		LAT
X	X	X			X	X	X			LONG
X	X				X	X				GETI
X	X	X			X	X	X			ΔV_C
X	X			-	X	X		-		AREA
X	X	X			X	X	X			LAT
X	X				X	X				LONG
X	X	X	X		X	X	X			GETI
X	X	X			X	X				ΔV_C
X	X			-	X	X		-		AREA
X	X	X			X	X	X			LAT
X	X				X	X				LONG
X	X	X	X		X	X	X			GETI
X	X	X			X	X				ΔV_C
X	X			-	X	X		-		AREA
X	X	X			X	X	X			LAT
X	X				X	X				LONG
X	X	X	X		X	X	X			GETI
X	X	X			X	X				ΔV_C
X	X			-	X	X		-		AREA
X	X	X			X	X	X			LAT
X	X				X	X				LONG
X	X	X	X		X	X	X			GETI
X	X	X			X	X				ΔV_C
REMARKS:										

DATE 8/7/72



EARTH ORBIT BLOCK DATA

DATE 8/7/72

X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C

REMARKS:



EARTH ORBIT BLOCK DATA

X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
REMARKS:				

DATE 8/7/72



EARTH ORBIT BLOCK DATA

DATE 8/7/72

X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
REMARKS:				



EARTH ORBIT BLOCK DATA

X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
REMARKS:				

DATE 8/7/72



EARTH ORBIT BLOCK DATA

DATE 8/7/72

X X	+	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
REMARKS:				



EARTH ORBIT BLOCK DATA

X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
REMARKS:				

DATE 8/7/72



EARTH ORBIT BLOCK DATA

DATE 8/7/72

X X	+	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
REMARKS:				



EARTH ORBIT BLOCK DATA

X	X		-	X	X	-	AREA
X	X	X		X	X	X	LAT
X	X			X	X		LONG
							GETI
X	X	X		X	X	X	ΔV_C
X	X		-	X	X	-	AREA
X	X	X		X	X	X	LAT
X	X			X	X		LONG
							GETI
X	X	X		X	X	X	ΔV_C
X	X		-	X	X	-	AREA
X	X	X		X	X	X	LAT
X	X			X	X		LONG
							GETI
X	X	X		X	X	X	ΔV_C
X	X		-	X	X	-	AREA
X	X	X		X	X	X	LAT
X	X			X	X		LONG
							GETI
X	X	X		X	X	X	ΔV_C
X	X		-	X	X	-	AREA
X	X	X		X	X	X	LAT
X	X			X	X		LONG
							GETI
X	X	X		X	X	X	ΔV_C
REMARKS:							

DATE 8/7/72

EARTH ORBIT BLOCK DATA

DATE 8/7/72

X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
X X	-	X X	-	AREA
X X X		X X X		LAT
X X		X X		LONG
				GETI
X X X		X X X		ΔV_C
REMARKS:				

EARTH ORBIT BLOCK DATA

X X	-	X X	-	AREA
X X X	.	X X X	.	LAT
X X	.	X X	.	LONG
.	.	.	.	GETI
X X X	.	X X X	.	ΔV_C
X X	-	X X	-	AREA
X X X	.	X X X	.	LAT
X X	.	X X	.	LONG
.	.	.	.	GETI
X X X	.	X X X	.	ΔV_C
X X	-	X X	-	AREA
X X X	.	X X X	.	LAT
X X	.	X X	.	LONG
.	.	.	.	GETI
X X X	.	X X X	.	ΔV_C
X X	-	X X	-	AREA
X X X	.	X X X	.	LAT
X X	.	X X	.	LONG
.	.	.	.	GETI
X X X	.	X X X	.	ΔV_C
X X	-	X X	-	AREA
X X X	.	X X X	.	LAT
X X	.	X X	.	LONG
.	.	.	.	GETI
X X X	.	X X X	.	ΔV_C
REMARKS:				

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
306 03						
307 04						
310 05						
311 06						
312 07						
313 10						
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315 12						
316 13						
317 14						
320 15						
321 16						
322 17						
323 20						
324 21						
325 22						
326 23						
327 24						
N34	HRS	X	X	X	X	X
	MIN	X	X	X	X	X
NAV CHECK SEC		X	X		X	X
N43	LAT		0		0	
	LONG					
	ALT	+	0		+	0

P27 UPDATE

P27 UPDATE

P27 UPDATE

P27 UPDATE

P27 UPDATE

P27 UPDATE P27 UPDATE P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
306 03						
307 04						
310 05						
311 06						
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317 14						
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321 16						
322 17						
323 20						
324 21						
325 22						
326 23						
327 24						
N34	HRS	X	X	X	X	X
	MIN	X	X	X	X	X
NAV CHECK	SEC	X	X		X	X
N43	LAT		0		0	
	LONG					
	ALT	+	0		+	0

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
306 03						
307 04						
310 05						
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315 12						
316 13						
317 14						
320 15						
321 16						
322 17						
323 20						
324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
306 03						
307 04						
310 05						
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316 13						
317 14						
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321 16						
322 17						
323 20						
324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72



P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT	0				0	
LONG						
ALT	+	0			+	0



P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
306 03						
307 04						
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324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT	0				0	
LONG						
ALT	+	0			+	0

P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
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327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT	0				0	
LONG						
ALT	+ 0				+ 0	

P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
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325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT	0				0	
LONG						
ALT	+	0			+	0

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V	V	V
GET	:	:	:
304 01	INDEX	INDEX	INDEX
305 02			
306 03			
307 04			
310 05			
311 06			
312 07			
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321 16			
322 17			
323 20			
324 21			
325 22			
326 23			
327 24			
N34 HRS	X X X		X X X
MIN	X X X X		X X X X
NAV CHECK SEC	X X		X X
N43 LAT	0		0
LONG			
ALT	+ 0		+ 0

P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72

P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
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314 11						
315 12						
316 13						
317 14						
320 15						
321 16						
322 17						
323 20						
324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72



P27 UPDATE

DATE 8/7/72

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
306 03						
307 04						
310 05						
311 06						
312 07						
313 10						
314 11						
315 12						
316 13						
317 14						
320 15						
321 16						
322 17						
323 20						
324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0



P27 UPDATE

PURP	V		V		V	
GET	:	:	:	:	:	:
304 01	INDEX		INDEX		INDEX	
305 02						
306 03						
307 04						
310 05						
311 06						
312 07						
313 10						
314 11						
315 12						
316 13						
317 14						
320 15						
321 16						
322 17						
323 20						
324 21						
325 22						
326 23						
327 24						
N34 HRS	X	X	X		X	X
MIN	X	X	X	X	X	X
NAV CHECK SEC	X	X			X	X
N43 LAT		0			0	
LONG						
ALT	+	0			+	0

DATE 8/7/72

P24 LANDMARK TRACKING

TGT:

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T₁ _____ : : _____

T₂ _____ : : _____

TCA _____ : : _____

T₃ _____ : : _____

R _____ °P _____ °Y _____ ° (T2 ACQ)

N or S NM _____ / SA _____ TA _____ (T2 ACQ)

N89 LAT _____ • _____

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T₃ _____ : : _____

R _____ °P _____ °Y _____ ° (T2 ACQ)

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N89 LAT _____ • _____

LONG/2 _____ • _____

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DATE 8/7/72

P24 LDMK TRACKING

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P24 LDMK TRACKING P24 LDMK TRACKING

P24 LANDMARK TRACKING

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N or S NM _____ / SA _____ TA _____ (T2 ACQ)

N89 LAT _____ • _____

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DATE 8/7/72



P24 LANDMARK TRACKING

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DATE 8/7/72



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DATE 8/7/72



P24 LANDMARK TRACKING

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