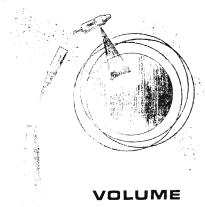


THIS DOCUMENT CONTAINS 283 PAGES NOVEMBER 1967

## 206 PROGRAM REPORT



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PROGRAM REQUIREMENTS DOCUMENT

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APPENDIX 32

PROGRAM REQUIREMENTS DOCUMENT

## PROGRAM 206 AF 13200 PROGRAM REQUIREMENTS DOCUMENT

HEADQUARTERS PACIFIC MISSILE RANGE
POINT MUGU CALIFORNIA

PRD
PROGRAM 206
AF 132000

HEADQUARTERS, PACIFIC MISSILE RANGE

POINT MUGU, CALIFORNIA

ENCL (1) TO PMR SERIAL 00778 OF 23 NOV 1962

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PROGRAM TITLE	AM 206	6. PROGRAM REGU NONE	HRÉMENT CODE	7. SYSTEM CODE 206		7/C5N-PACT NUV9ER CE AF04(695)-7.69	060 DATED 1 May 1962
PRD PAGE REFERENCE	TITLE	S C U	†	PUBLISHER AND DATE		SOUR	
159	Model Specification of Atlas Booste Vehicle, USAF Model SM-65-D (Modifi Convair Model 27, Report AZD-27-002	ed)		Dynamics/Astronauti ary 1961	cs	General Dynamics/Ast	ronautics
159	Atlas D Space Booster System Description Report AE61-0553		General	Dynamics/Astronauti	es	General Dynamics/Astr	ronautics
155	M-79 Squib IMSD DCS 1067061		IMSC, 1	January 1962		IMSC 206 Program Off:	ice
155	Destruct Assembly, Shaped Charge IMSD DCS 1067259		ORDCO,	August 1960		IMSC 206 Program Offi	ice
155	Agena D Advance Vehicle Description IMSC A081462		LMSC, 9	January 1962		IMSC 206 Program Offi	ice
150	Model Specification, Engine, Rocket Liquid Propellant, USAF Model XIR-81-BA-9, IMSD 445986	5	IMSC, 1	May 1960		IMSC 206 Program Offi	ice
		-		Requests for technic ences for the satell the shall be directe program technical ma	ite vehi- d to the	William F. Sampson Aerospace Corporation P.O. Box 95085 Los Angeles 45, Calif	
(IND-PIR-68CO/86 (RE)	/· 3-61)				I. SECURITY C	LASSIFICATION	9. REVISION NO.

			1. SECURITY CLASSIFICATION	2. PAGE 070 3. DATE 22 October 19
•	SPECIAL NOMENCLATURE & ABBREV	/IATIONS		4. REPLACES PAGE(S)
OGRAM TITLE		M REQUIREMENT CODE 7. SYSTEM CODE	8. CONTRACTOR/CONTRACT NUMBER	070
PROGRAM 206		NE 206	Aerospace AF04(695)-169	DATED 1 May 1962
WORD OR ABBREVIAT:ON	11.	DEFINITION	OR MEANING	
A/V	Aerospace Vehicle			
AGE	Aerospace Ground Equipme	ent		
BECO	Booster Engine Cut Off			
c/o	Checkout	•		
DPL	Dual Propellant Loading			
EMI	Electro-Magnetic Interfe	rence		
FIC	Frequency Interference C	ontrol		
GD/A	General Dynamics/Astrona	utics		-
GE/MSVD		s and Space Vehicles Division	n	
IRFNA	Inhibited Red Fuming Nit			
IRIG	Inter-Range Instrumentat	ion Group		
IRP	Inertial Reference Packa			
LC	Launch Control	-		
LOB	Launch Operations Buildi	ng		
LOCC	Launch Operations Contro			•
LOV	Loss of Vision			
LOX	Liquid Oxygen		and the second second	
IMSC	Lockheed Missiles and Sp	ace Company		
MAB	Missile Assembly Building			•
MFSS	Missile Flight Safety Su			•
MOPS	Missile Operations Inter			
OCA	Orbital Control Vehicle			
PMR	Pacific Missile Range			
PALC II	Point Arguello Leunch Com	mblex Number Two		
PU	Propellant Utilization			
RSC	Range Safety Command			
SECO	Sustainer Engine Cut Off			
SD	San Diego			
STA	Satellite Test Annex	•		
s/v	Satellite Vehicle		e e	
TIM	Telemetering			
UDMH	Unsymmetrical Dimethyl Hy	ydrazine		
VECO	Vernier Engine Cut Off			
VAFB	Vandenberg Air Force Base			April 2
VSB	Vehicle Service Building			
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s. program title PROGRAM 206		4. PROGRAM REGULERMENT CODE NONE	7. SYSTEM CODE 206		PACTOR/CONTRACT NUMBER OSDACE AFO4(695)-169	DATED 1 May 1962
10. NAME	POSITION A	ND ORGANIZATION	PROJECT RESPONSI	BILITY	BUSINESS ADDRESS	TELEPHONE NO.
alanininga and dalaman ang ang mang ang mang ang ang ang ang ang ang ang ang ang	SSD					
Col Q.A. Riepe (USAF)	Director, Program	206, SSZX	Management for SSD		Headquarters SSD (SSZ) Col Riepe, AF Unit PO	
	Project Officer Te	est Planning Office	Test planning		Hq SSD (SSOT)  AF Unit I	OS 9-4661 Ext 4203
	Range & Facilities 206 Program Office		Test operations pla	unning	Hq SSD (SSZXO)  AF Unit	OS 9-4661 Ext 3738
	Aerospace Corpora	tion				-
William F. Sampson Ellis Lapin	Systems Engineeri: Associate Systems Program 206	ng Director Eng. Director	General systems eng and technical direc		Aerospace Corporation PO Box 95085 Los Angeles 45, Calif.	05 9-4661 Ext 4282
L.E. Lundquist	Systems Operations 206 Program Office		Systems test & eval	uation	Aerospace Corporation PO Box 95085 Los Angeles 45, Calif.	05 9-4661 Ext 4033/4129
	6595 ATW				-	
·	Project Officer, 6595th Aerospace T	Test Wing	Program 206 project for 6595th ATW	officer	6595th Aerospace Test (VW PO Box 1567 Vandenberg AFB, Calif.	ZSM)   Calif.   866-1611
	AFO/PMR					
	Program Manager, Ai	r Force Office,	Program 206		PO Box #3 Pt. Mugu, Calif.	Hunter 6-8331 Ext 7416
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5. PROGRAM TITLE PROGRAM 206		6. PROGRAM PILUTREMENT CODE NONE	7. SYSTEM CODE 206	1	Space AF04(695)-		1 May 1962
10. NAME	POSITION AND	D ORGANIZATION	PROJECT RESPONSIBIL	.ITY	BUSINESS	ADDRESS	TELEPHONE NO.
	AFO/PMR (Cont) Program Planning O	ffice	PMR program manager		Code 124.4 Pt. Mugu, Cali;	f.	Hunter 6-8331 Ext 8609
	Range Operations D	ept.	Range operations coo	rdinator	Code 3216, Pt. Mugu, Calii	۴.	Hunter 6-8331 Ext 7/51
	Technical Programs	Staff	Range development con	ordi-	Code 3101-23 Pt. Mugu, Calif	r.	Hunter 6-8331 Ext 7731
	General Dynamics/As San Diego, Calif.	stronautics					
Ames, C.S.	Vice President & Pr	rogram Director			General Dynamic PO Box 166 San Diego 12, 0	•	es BRowning 7-890 Ext 1701
	Ass't Program Direct Program Office	ctor, Atlas/Agena			li ii	11	Ext 1825
Chamberlain, S.B.	Project Engineer		PMR space boosters		11 11	, п	Ext 3162
Malloy, T.L.	Manager		Launch operations		11 11	35	Ext 1823
Martin, R.R.	Asst. Project Engir	neer	Program 206		11 11	fr	Ext 3162
Johnston, C.A.	Chief Test Conducto	or	PMR space boosters		General Dynamic Vandenberg Air Post Office Box Lompoc, Califor	Force Base 1536	cs REgent 4-4351 Ext 8-5045 8-5129
Munizza, D.	Asst. Test Conducto	or	PALC II		п п		Ext 8-8143
Holder, R.F.	Asst. Test Conducto	or	MAB 3		11 11		Ext 8-4960
	Base Manager		VAFB Operations		11 11		Ext 8-5209
Newton, K.F.   IND-PR-5800/21 (REV. 3-61)	<del>{</del> D		VAFE Operations		TY CLASSIFICATION	9.	Ext 8-5209  REVISION NO.  1  00778

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S. PROGRAM TITLE PROGRAM 206		9. PPOGRAM PERMIT CODE NONE	7. SYSTEM CODE 206			ospace AF04(695)-169	110.2 ***** 1 May 1962
10. NÁME	POSITION AN	D ORGANIZATION	PROJECT	RESPONSIBILIT	TY.	BUSINESS ACCRESS	TELEPHONE NO.
*	GE/MSVD Philadelphia, Pa.		• .				
Cowles, L.B.	General Manager, A Vehicle Section	dvance Space				Valley Forge Space Tech Center PO Box 8555 Philadelphia 1, Pa.	Ext 969-2141/-2
Katzen, J.	Program Manager, 2	06 Program Office		•		Advance Space Vehicle Se PO Box 8661 Philadelphia 1, Pa.	ctionExt 969-5072/3
Brainard, John	Manager Field Oper Program 206	ations,				Advance Space Vehicle Se PO Box 8661 Philadelphia 1, Pa.	ction Ext 969-5784
Binegar, J.	Manager Flight Tes Program 206	t Operations,				Advance Space Vehicle Sec PC Box 8661 Philadelphia 1. Pa.	ction Ext 866-7148
		-					
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PROGRAM 206		NONE	206	I	ospace AF04(695)-169	110.3 SATED 1 May 1962
NAME	POSITION A	ND ORGANIZATION	PROJECT RESPONSII	BILITY	BUSINESS ACDRESS	TELEPHONE NO.
	IMSC - Sunnyvale					
Plummer, J.W.	Director Military 60-03	Programs			IMSC (Bldg 104) PO Box 504 Sunnyvale, Calif.	Ext. 2-8793
Huntley, H.W.	Manager Booster Sy 65-10	rstems	Project manager		IMSC (Bldg 524) PO Box 504 Sunnyvale, Calif.	Ext. 2-3072
Hart, Jr., J.T.	Asst. Manager Boos 65-10	ster Systems	Assistant project ma	mager	IMSC (Bldg 524) PO Box 504 Sunnyvale, Calif.	Ext. 2-3072
Harley, John	Manager Booster Sy 65-12	stems Engineering	Project engineer		IMSC (Bldg 524) PO Box 504 Sunnyvale, Calif.	Ext. 2-3683
Benn, Donald G.	Assistant to Manag Booster Systems fo 65-10		Assistant to project for requirements	manager	IMSC (Bldg 524) PO Box 504 Sunnyvale, Calif.	Ext. 2-3356
Beverage, R.J.	Manager System Ope and Test Direction		Test planning		IMSC (Bldg 519) PO Box 504 Sunnyvale, Calif.	Ext. <b>2-1</b> 383
IND-PNR-6800/31 (REV. 3-61) 2	NRD.	entral control of the second s		1. SECU	RITY CLASSIFICATION	9. REVISION NO.

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5. PROGRAM TITLE		S. PRO	GRAM P	EJUIRE	MENT CO			STEM C						TRACTOR/CO						1.1	1.2	
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A   Lubon (Satellite Vehicle)   B	TEST			L		FY _	196	3		<u> </u>				FY	196	4							FY			FY	
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STAGE II   Indicate scheduled range time for frequency clearance, etc.				<del>  </del>										<u> </u>				<u> </u>			t	otal	durat	ion a	nd do	not	
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5.	PHUGRAM TIT		ROGRAM 20	<b>x</b> 6			N	ONE	LUDF:	7. SYSTEM CODE 206								DATED 1 May 1962
ID. ITEM NO.	TEST CODE	12 . MO .	TEST DATE	13. DD	TEST NUMBER	TEST VEHICLE NO	APPROX RANGE NO.	FLIGHT DURATION	15.	AIMING POINT COORDINATES		TEL,	REC	OV.			SDACE AFO4(695)-169	L
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				PROGRAM	OBJECTIVES				TY CLASSIFICATION	2. PAGE 130  3. DATE 22 October 1962 4. REPLACES PAGE(S)
5. PR	OGRAM TITE	r PROGR	AM 20	6	6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE .		1	CTOR/COUTRACT NUMBER PACE AF04(695)-169	130 DATED 1 May 1962
ITEM NO.	TEST CODE	CAT PRIM	OTHER	OBJECTIVES		TEST LOCATION	TEST AGE	ENCY	TECHNICAL RAN	GE SERVICES
1	A	X		Satellite Vehicle - Launch  Demonstrate the capability of to boost the Program 206 sate a circular near-polar orbit of 95 n mi altitude	ellite vehicle into	PALC No. 2	6595th Aerospace Test Wing		GE guidance ground star instrumentation, range launch support instrume control, frequency cont test data, range timing operations support, con aircraft support	ship instrumentation, entation, range crol, meteorology, s, other range
2	В	X		Dress Rehearsal or DPL  This is a launch countdown dr equipment readiness and to al operations personnel, and inc ing of the booster. A dress conducted only once per progr	ert and train ludes a dual tank- rehearsal will be	PALC No. 2	6595th Aerospace Test Wing		Same as Item 1 for a dr booster dual tanking re safety, and frequency of telemetry.	quires only fire,
I IND-PMI	R-8800/85	[ 6 (REV. 3	-61)	NRD				I. SECURIT	TY CLASSIFICATION	S. REVISION NO.

	·		THE STATE OF THE S	COCH ZONGHUMONNIGHT ON THE MENT MANAGEMENT OF THE MENT				1. SECUR	RITY CLASSIFICATION	2. PAGE 130 . ]
				PROGRAM	OBJECTIVES					3. PATE 22 October 196
S. PRO	GRAM TITL	-	GRAM 2	THE RESERVE OF THE PROPERTY OF	6. PROGRAM RECUIREMENT CODE NONE	7. SYSTEM CODE 206			actor/contract number space AF04(695)-169	130.1 DATED 1 May 1962
TEM NO.	TEST COTE	CAT PRIM	EGORY	OBJECTIVES		TEST LOCATION	VEST AGE	INCY	TECHNICAL RAN	GE SERVICES
3	C	Х		Simulated Flight				0000 7 LOAD SA		-
		erette der der der der der der der der der de		Demonstrate compatibility tioning of the Satellite electrical and electronic     Demonstrate proper progra     Validate pyrotechnique ar     Demonstrate satisfactory devices and vehicle opera power     Check destruct system sig     Demonstrate vehicle-to-TL	Vehicle/Agena/Atlas systems mmer functioning ray firing sequences umbilical release tion on internal mals	PAIC No. 2	6595th Aerospace Test Wing		GE ground guidance stat frequency control, rang tions, tracking station	ge timing, communica-
h	מ	x		Guidance Flyby	M Station Operation					
_	D	ı.		Dynamically check the gui including guidance rate a and the guidance computer	nd track equipment	VAFB 55-1 Guidance Station	6595th Aerospace Test Wing		GE 65-1 guidance static air-to-ground communica	
5	E	х		Tracking Station and TIM Ship						
alemente, sons pretti dessifera politici de la comencia e suce	een milita qua qua qua prandi didina da da da da da da da da da da da da da			Assure optimum operation of t and TIM ship during a mission		VAFB, other tracking stations, and TIM ship	6594th Aerospace Test Wing		Tracking and telemetry	network, test aircraf
6	F	X		MFSS Functional Checkout						
				Check out destruct capability overall system integrity	and establish	PAIC No. 2	6595th Aerospace Test Wing		Range safety control, g operations support	eneral range

				PROGRAM	OBJECTIVES			1. SECURITY CLASSIFICATION	2. PAGE 130.2 3. DATE 22 October 19 4. REPLACES PAGE(3)
s. PRO	GRAM TITL	-	OGRAM	206	6. PROGRAM RES PEMENT CODE NORTH	7. SYSTEM CODE		a. contractor/contract number Approspace AFO4(695)-169	130.2
TEM NO.	TEST CODE		EGGRY OTHER	OB JPCT I VES	·	TEST LUCATION	TEST AGE	ENCY TECHN!	CAL RANGE SERVICES
7	G	X		Electromagnetic Interference Ascertain the absence of int difficulties resulting from tion of all rf and other ele	erference simultaneous opera-	PALC No. 2	6595th <b>A</b>	all tracking and	ce station, range safety, instrumentation stations l, communications and othe support
8	Н	х		Ground Guidance Loop Test Establish confidence in the control system, including th system and guidance computer	e radio tracking	PALC No. 2	6595th A	GE ground guidan	ce station
٥,	I	х		Compatibility Test Assure electrical compatibil aerospace vehicle and aerosp (AGE) and demonstrate abilit closed loop checkout mode	ace ground equipment	PALC No. 2	6595th A CE IMSC GE-MSVD	TW PAIC No. 2, limit stations, and from	ted instrumentation equency control
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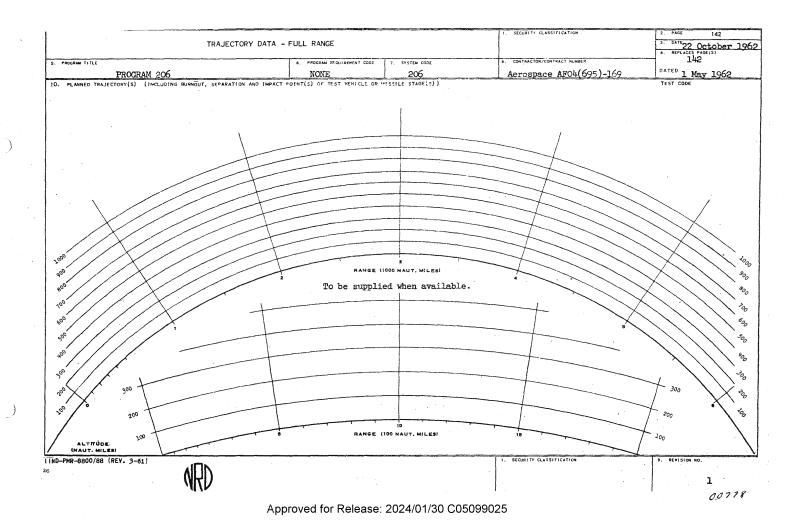
						1. SECURITY	CLASSIFICAT	ICN		2. P/	140	·
		PROGRAM D	ESCRIPTION:							3. DA	PLACES PAGE	tober 196
5. 1	PROGRAM TIT	1£	6. PROGRAM SEQUIREMENT CODE	7. SYSTEM CODE		6. CONTRACT	DR/CONTEACT F	1,14564			140	>1
Musconer		PROGRAM 206	NONE	206	C 122 WAY AND THE PARTY NAMED IN	Aerospa	ce AFO4	(695)-]	.69	DATE		1962
TEM NO.	TEST CODE	PROGRAM DESC	RIPTION		PREPARA- TION TIME	PRE-OP- ERATION TIME	OPERA- TION TIVE	POST CP. TIME	NUMBER OF OPERA- TIONS	NUMBER OF PER- SONNEL	AVAILA- BILITY DATE	TEST PHASE COMPLETION DATE
1	A	Aerospace Vehicle - Launch						West of the second second				The second second second second second second second second second second second second second second second s
2		Ascent Trajectory - The launch phase in injection into orbit. The launch vehicle booster first stage, an Agena D second of the launch trajectories will be on azin degrees. During first stage burning, to control of the GE Mark II guidance systematic to place the second stage and setory. The first stage trajectory will look angles with respect to radio guidance system. After a coast period, whe the ullage rockets on the Agena will fi will burn at a constant nose-up attitud Agena cutoff will be accomplished by a satellite vehicle in a near-circular or miles altitude.	the will consist of thage, and a satelli nuths of approximate the launch vehicle weem, which will detected in order the launch vehicle in be lofted in order nace antennae requir n Atlas/Agena separ re to settle the fue as sensed by hori velocimeter so as to	an Atlas D te vehicle. bly 170 to 200 rill be under rmine velocity a coast trajec- to maintain the ed by the guid- ation occurs, el and the Agena zon sensors. o place the	ц <sub>w</sub>	2 d	8 h	l w	10 flights (basic)		Jan 1963	June 1964
		Nominal Ascent Trajectory - The ascent 15-second vertical rise of the aerospac auto-pilot controlled pitch program whi path approximately that of a zero-lift booster cutoff, engines are jettisoned guidance ensues. During sustainer oper tially constant inertial pitch rate, the the desired coast ellipse at Atlas sust phase follows, during which time the vereits separated from the Atlas by means of The Agena D vehicle then coasts nominal during which time the horizon sensor favehicle is pitched over to an attitude to the local horizon. This attitude reis maintained by means of the horizon set.	e vehicle, followed ch causes the vehic turn until booster and the sustainer pation the vehicle fee rate being comput ainer cutoff. A shalocity vector is trainer cutoff the Agei retrorockets attackly for approximately irings are jettison of 12.3* degrees not attive to the local	by an open-loop, le to follow a cutoff. After hase of active lies at essended to produce ort vernier immed and manD vehicle ned to the Atlac. y 55* seconds ad and the see up relative horizontal		an	gles ar	e subj	pitch attended to control	hange.	inch	
HD-PI	₩R-8800/86	(REV. 3-61)	managaren un vinnagantangantangan di matabi			1. SECURITY	CLASSIFICATI	ON	1	9. REV	ISION NO.	

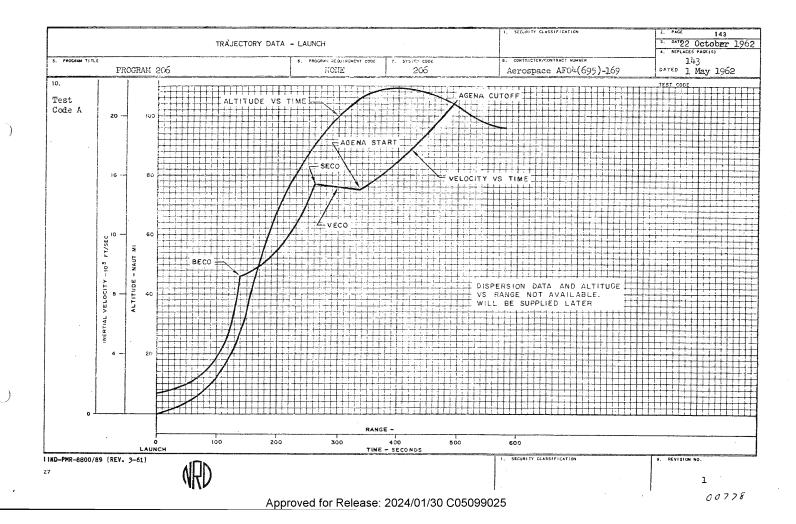
		ESCRIPTION			1. SECURITY	CLASSIFICAT	ICN		2, 9	140	1 20/0
	PROGRAM D								4. 9		ober 1962
5. PROGRAM TIT	PROCRAM 206	6. PROGRAM RECUIREMENT CODE NONE	7. SYSTEM CODE 206			ce AFOL		160	DATE	140.1 D 1 May	1060
10, [11,	PROGRAM 200	NORE	200	11.	14.	15.	16.	17.	là.		32.
TEM TEST NO. CODE	PROGRAM DESC	RIPTION		PREPARA- TION TIME	PRE-OP- ERATION TIME	OPERA- TION TIME	POST OP. TIME	NUMBER OF OPERA- TIONS	NUMBER OF PER- SONNEL	AVAILA- BILITY DATE	TEST PHASE COMPLETION DATE
(Cont)	Satellite Vehicle - Launch (Continued)										
	program and is precomputed to provide after the Agena accelerates through a Agena cutoff is initiated by a velocit is then separated from the Agena. The atmosphere after separation.	prescribed velocity y meter. The satel	increment. Lite vehicle								
4 B	Dress Rehearsal or DPL									Ì	
	The dress rehearsal consists of a real Atlas engines. A complete launch coun ducted and the Atlas will be tanked wi The Agena-D and satellite vehicle will will simulate as nearly as possible a personnel participating. After the fi conducted rather than a full dress reh dual propellant loading (fuel and LOX) down through commit without firing the range instrumentation.	tdown through commit th fuel and LOX to a not be tanked. The n actual launch, with rst firing, generall earsal. The DPL will of the Atlas and ar	t will be con- flight capacity. e dress rehearsal th all range by a DPL will be il consist of a a Atlas count-	1 d	ОФ	6 to 8 h	l d	l each flight (DPL)			R-7 đ
and desirable the second secon				опистропом предоставляющим предоставляющим предоставляющим предоставляющим предоставляющим предоставляющим пре						er v deletimen i v men pendedi mengada i	
rionisamojis siriistikaja kirjaliistikaja paise				And the same of th					Palling and Pallin		
						Total e in this		e involv ity.	ed		
		•		Addigation became the state of							The second district of the second district of
HD-PHR-8800/86	6 (PEV. 3-61)			L		CLASSIF: CAT	On		L	VISION NO.	

						i. SECURITY	CLASSIFICATI	ON	**************************************	2. P	140	.2
		PROGRAM D	ESCRIPTION		i						ATE22 Oct	ober 1962
5. P	ROGRAM TIT	LE .	6. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE		8. CONTRACT	OR/CONTRACT A	TUMBER		_	14	0.2
		PROGRAM 206	NONE	206		Aerospa	ace AFO	4(695)	-169	DATE	D 1 May	1962
ITEM NO.	TEST CODE	PROGRAM DESC	RIPTION		PREPARA- TION TIME	PRE-OP- ERATION TIME	OPERA- TION TIME	POST OP. TIME	NUMBER OF OPERA- TIONS	NUMBER OF PER- SONNEL	AVAILA- BILITY DATE	TEST PHASE COMPLETION DATE
5	Ċ	Simulated Flight										
		This test is to be a realistic exercise. The Atlas, satellite vehicle, and the A			ld	0	<b>2</b> 0 h	0	2 each flight	300		R-12 d
6	D	Guidance Flyby			1							
		The guidance flyby test will be an airclaunch azimuth. The aircraft will carried by the GE ground guidan PMR range requirements other than frequin effect.	ry an Atlas guidance nce station and rang	simulator and e radar. No	1 d	6 h	5 h	1 d	l each flight	37	Later Common	R-10 to R-0 d
7	E	Tracking Station and TIM Ship										
		This will include calibration of all educate flight by an aircraft carrying Ti				ld	5 h	1 d	l each flight			R-1 d
8	F	Missile Flight Safety System Functional	Checkout									
		Booster MFSS operation will be in conjugand the range safety control center and the destruct system and monitoring sign	l will include stimu	lus applied to	1 d	4 h	14		2 each flight	20		R-10 d and R-1 d
							-					
								-	and the second			
										ada de departementos		
1												
										-	· in the state of	
										and displayed the same of the		
		,							-			
	R-8800/86	(REV. 3-61)		************	•	I. SECURITY	CLASSIFICATI	ON		9. 81	EVISION NO.	de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la
3		<b>UKD</b>			.					-	1	٠

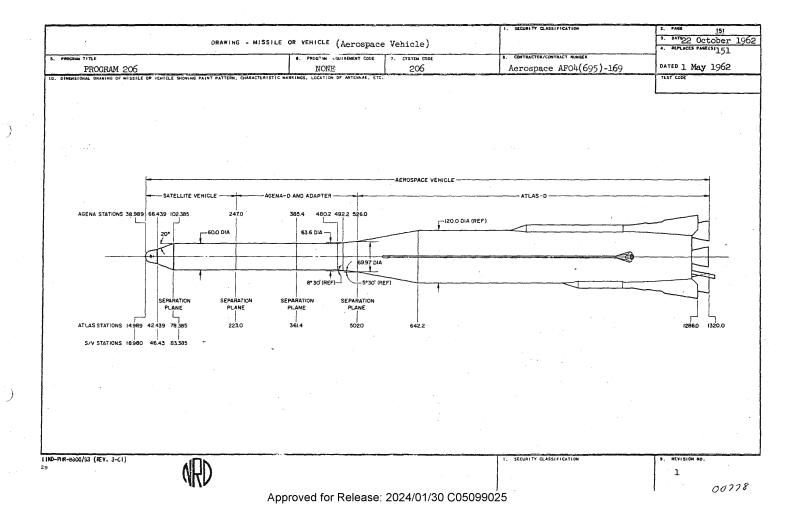
	PROGRAM DESCRIPTION					1. SECURITY		3. D	2. PAGE 140 .3  3. DATS22 October 1962  4. REPLACES PAGE(S)			
5. PROGRAM PUTLE  6. PROGRAM REQUIREMENT CODE  PROGRAM 206  NONE  206						a. contracti Aerospa		DATE	140.3 DATED 1 May 1962			
TEM NO.	TEST CDDE	PROGRAM DESC	RIPTION		PREPARA- TION TIME	PRE-OP- ERATION TIME	15. OPERA- TION TIME	POST OP. TIME	NUMBER OF OPERA- TIONS	NUMBER OF PER- SONNEL	AVAILA- BILITY DATE	TEST PHASE COMPLETION DATE
9	G	Electromagnetic Interference										
-		Operation check of all rf systems with Atlas, and range rf systems operating support for FIC only.			ld	4 h	3 h		l each pad	20		R-15 d
10	н .	Ground Guidance Loop Test										
-		Booster flight control and guidance synthe ground guidance station through a PMR support for FIC only.			2 h	2 h	2 h		3 each flight	56		R-9, R-7
11	I	Compatibility Test										
The second secon		The AGE will be connected to an A/V sir function and control. The AGE will the power cautiously switched on and monito functions will then be exercised and mo will be employed.	en be connected to pred. The balance	the A/V, with	1 d	0	бъ		3 each flight			R-20 to R-1 d
					A company of the comp		-					
				•								
									1			
ļ	•											
I			•			.						
				•						-		
ND-PN	R-8800/86	6 (REV. 3-61)	The state of the s			1. SECURITY	CLASSIFICATI	ON	I	9. RE	VISION NO.	1
		(MKD									1	,

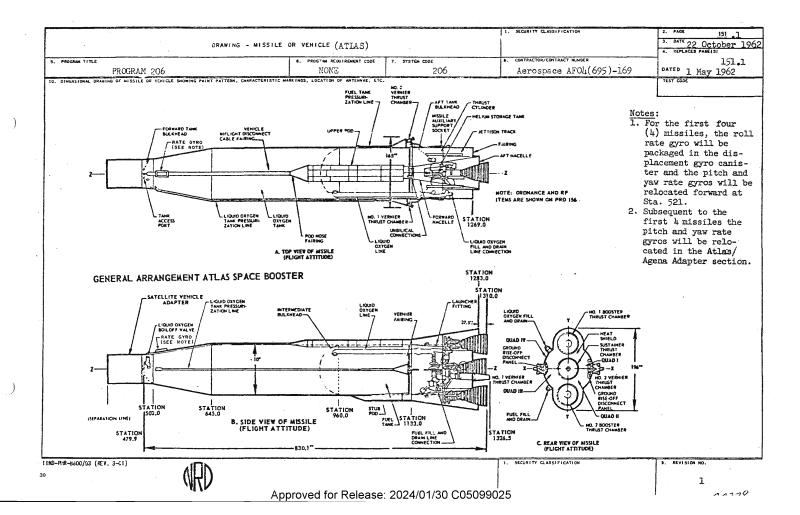
	TRAJECTORY DA	TA - PLAN VIEW	1. SECURITY CLASSIFICATION	2. PAGE 141  3. DATE 22 October 196 4. REPLACES PAGE(S) 141	
5. PROGRAM TITLE		6. PROGRAM "CUIRFMENT CODE	7. SYSTEM CODE	8. CONTRACTOR/CONTRACT NUMBER	141
PROGRAM 200	5	NOWE	206	Aerospace AF04(695)-169	DATED 1 May 1962
10. PLAN VIEW (INCLUDING LAUNCH AZIMUTH	AND IMPACT POINT(S) OF TEST VEHICLE OR WISSILE	STAGES).			TEST CODE
					L,
			•		
	•				
					*
•					
					•
	T	nis information will	l be supplied when av	ailable.	•
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				en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	*
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IIND-PtR-88GG/67 (REV. 3-61)	(C)			1. SECURITY CLASSIFICATION	9. REVISION NO.
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<del>-</del>	<b>11/1</b>				1
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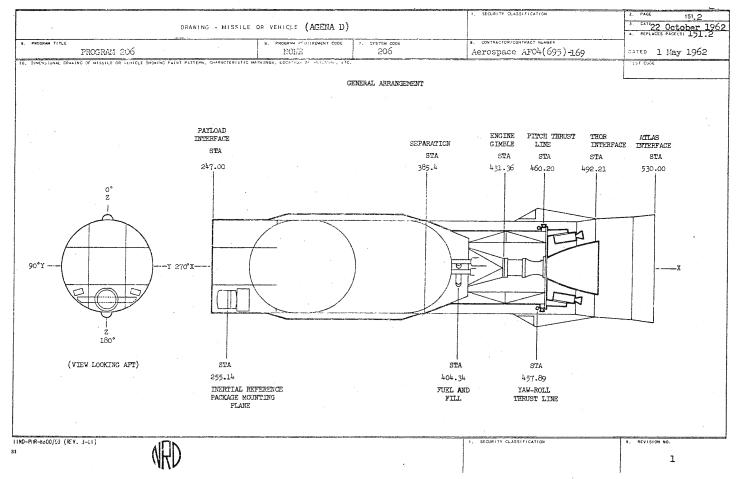




		VEHI	CLE DESCRIPTION	וינ							3. DATE 22 October 1
S. PROGRAM TITLE	6. PROGRAM RECUIREMENT CODE 7. SYSTEM CODE				8. CONTRACTOR/CONTRACT NUMBER			150			
PROGRAM 206	NONE 206				Aerospace AFO4(695)-169 DATED 1 May						
O. TEST CODE AND SERIES	11. YERICLE NAME		12.			3. TYPE AND DESIG	ATION		23. PAYLOAD LOES	CRIPTION	
A			XX SATELL	TEBALL	ISTIC SE	Aerospace '	Vehicle		1		
4. LAUNCH AZIMUTH - DEGREES T.	15. LAUNCH ELEVAT	ION - DEGREES	16. TRAJECTORY A2	MUTH-DEGREES T.		17.			1		
170 to 195	90								]		
*CHARACTERISTIC PER STAGE	TOTAL	(i)Atlas D	(2) Adapter	(3) Agena	a-D	(4) Satellite	Yehic	le .	]		
8, PHYSICAL DIMENSIONS - FEET		, ,	(Atlas-Ag	ena) W/C	Adan	ter		.,	24. GUIDANCE SYS	TEM	
A. LENGTH (2)	110.3(1)	1 69.2(1)	12.0	23.25		17.5'			GE Mark	TI Guidance Sy	stem: See PRD 159.
B. DIANETER	10.0	10.0	5.0	5.0		5.01			1	-	**
C. WIDTH - MAX.	16.3	16.3	5.9	6.0		5.01					Corrected informa-
9. WEIGHTS - POUNDS (Target)							C-0		tion wil	l be supplied.	later.
A. DRY (EMPTY - NO PROPELLANTS)		11,913	404	1.371		3459			Notes:		
8. PROPELLANT OR FUEL (Liftoff)		75,839	-	3,752		170		•			
c. OXIDIZER (Liftoff)		170.427	-	9,619		187			1 (1) I	urbine exhaust	duct protrudes an
D. GASES		159		20		229				dditional 14 i	
E. MISCELLANEOUS		219		5		-			(2) I	engths specific	ed are overall length
F. DESTRUCT MATERIALS		1	14	1		-		***************************************			ections. When the
G, AT LAUNCH		258,557	418	14,767	T	4045					mbled some sections
H. AT BURNOUT	***************************************	6,413	416	1.485(	6)	4025 (8)		***************************************		xtend into other	
O. PROPULSION SYSTEM										ooster (B) - Y	
A. TYPE ENGINE		Liquid	_	Liquid	1	Liquid	***************************************	***************************************		ustainer (S) -	
B. MANUFACTURER		Rocketdyne	_			Rocketdyne			1 <u>V</u>	ernier (V) - Y	R101-NA-13
C. DESIGNATION		(3)				Se 5-2	·		(4) B		
D. NUMBER OF ENGINES		B=1.S-1.V=2	_	1						<b>=</b> 215	
E. SPECIFIC INPULSE - ISP		(4)	_	292.2 (	vac)	285				= 207.6	•
F. THRUST - POUNDS/ENG.		(5)	_	16,115						= 309,000	_
G. THRÚST OURATION - SEC.	***************************************	<b>—</b> — — — — — — — — — — — — — — — — — —	-	240(lst		N/A				= 57,000	
1. PROPELLANTS AND GASES	·			2nd Bur		75% NoH4				= 2,000	
A. PROPELLANT OR FUEL		RP-1		UDMN		25% MMH				eight at end of	
8. OXIDIZER		LO2		TRENA		NoOh			(7) N	2CF4 used for o	old gas attitude
C. GASES		He		He , NoCF		GNo/Freon/	CNO 200	Fred		ontrol.	
D. GAS PRESSURE - PS1		3000		3600		5000/4800/		. 1100	<sup>1</sup> (8) A	t Agena separat	ion
ε.		1-1000		1.000		2000/ 7000/					
2. PERFORMANCE	***************************************	1									
A. RANGE -				T		Orbital					
B. ALTITUDE~		<b> </b>		<del> </del>		OT OT OUT					
C. MAX. VELOCITY-						25,600 fps					
D. MAX. ACCELERATION-G			***		-+	7.1					
E. TIME + T+ SEC.				<del> </del>		600 to orb			*/7:00 10 0300 0	r number of stage or phase	,
D-PMR-6800/92 (REV. 3-61)				1		oud to org	ΤŢ		ype in name of	number of stage of phase	,

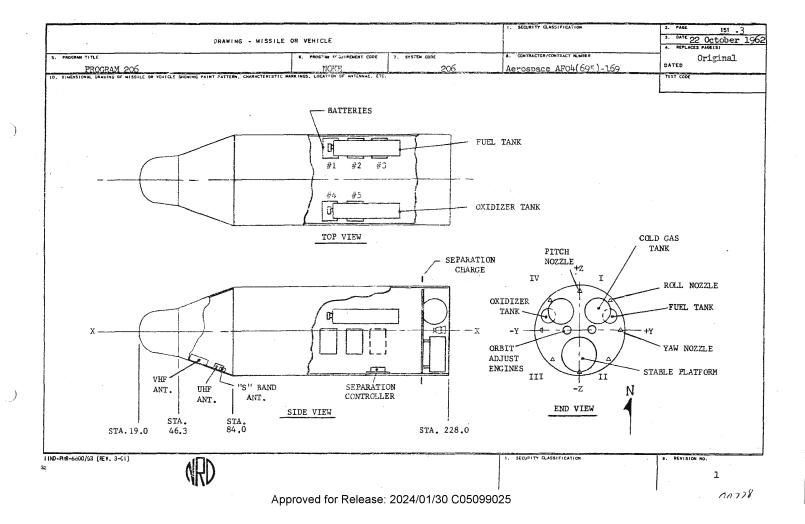






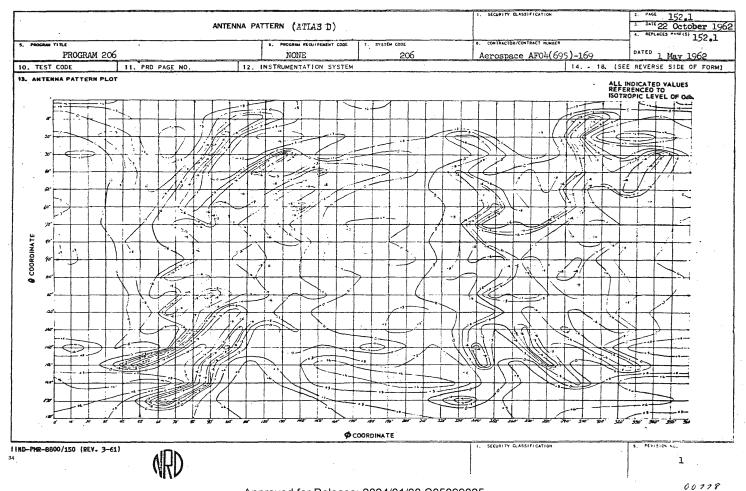
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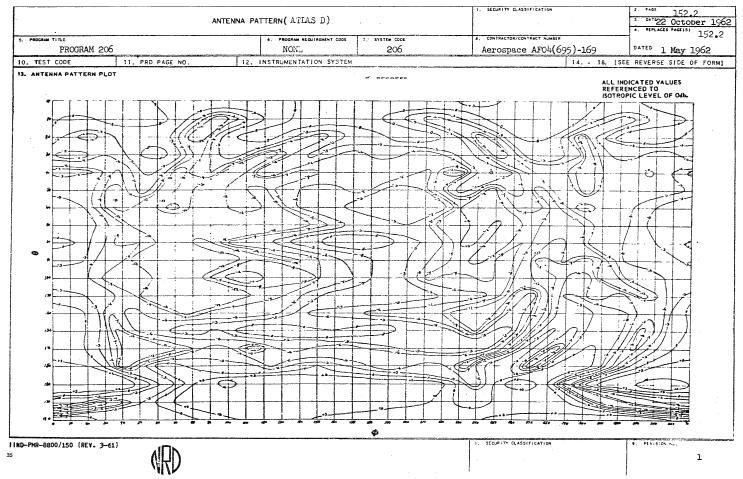


		TELEMETRY SYST	EM (ATLAS D)		1. SECURITY CLASS	FICATION	2. PAGE 152  3. DATE 22 October 196  4. REPLACES PAGE(S) 152
5. PROGRAM TITLE PROGRAM 206			4. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE 206	a. contractor/con Aerospace	fract number AF04(695) <i>–</i> 169	DATED 1 May 1962
IO. GENERAL INFORMATION	1	TRANSMITTER CHA	RACTERISTICS	12. ANTENNA CHARACTERIS	itics	13. DATA TO BE TRANSM	ITTED & REMARKS
A. TEST CODE: A, B, C, F, G, I  B. LINK FREQUENCY: 249.9  C. BAND WIDTH: 300	МС	a. LOCATION: Atlas D  B. TYPE: Crystal con  C. MODEL: 1411077-10	trolled	A. LOCATION: STA. 892 4 WITH REFERENCE TO THUE NOW MISSILE IS ON LAUNCH PAD.  B. TYPE: Probe fed cavity	SO SAZ	The telemetry syst AN/DKT-17 (GFAE) and power control auxiliary signal c	signal conditioner unit, plus an
D. MAX. DEVIATION: + 150  E. MIN. DEVIATION: + 105	1	D. MANUFACTURER: CUD		c. model: GD/A P/N 27-12 and 27-12 b. manufacturer: Creative E	2507-3		•
F. NUMBER OF CHANNELS: 9 IRIG COMMUTATED: 2  G. NUMBER OF SEGMENTS/CHANNEL: CHANNEL - SEGMENTS	-	F. EFFECTIVE RADIATED P at output of pactors of pactor	kage LERANCE IN ENCY: 0.01 %	E: PREDOMINANT POLARIZATION:  F. GAIN IN DB ABOVE ISOTROPIC:  G. DIRECTIVITY AND BEAMWIDTH IN  AND ELEVATION - 1 POWER:	l to 2 db		
15 - 60 16 - 60		FREQUENCY AND PULSE	WIDTH (PCM) PULSE WIDTH	Essentially omnidirect H. IS THERE AVAILABLE A SPECTRU REPORT ON THIS ANTENNAT VES X NO		•	• • •
M. STATE NON-IRIG PARTICULARS:		Not Applicable J. IS THERE AVAILABLE A S REPORT ON THIS TRANSM TYES	,	I. INDICATE THE AVAILABILITY OA ANTENNA PATTERN MEASUREMEN Refer to PRD 152.1 and	NTS.		
IND-PMR-8800/94 (REV. 3-61)	4	<b>3</b> D			1. SECURITY CLASSI	FICATION	9. REVISION NO.

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PROGRAM 206 NONE 206 Aerospace AF04(695)-169 DATED 1 May 1962	ANTENNA	1. SECURITY CLASSIFICATION		2. *AGE 152.3 3. **DATE 22 October 1962 4. **REPLACES PAGE (5) 152.3		
	5. PROGRAM TITLE	6. PROGRAM .GUINEMENT CODE	7. SYSTEM CODE	8. CONTRACTOR/CONTRACT NUMBER		1,72.03
	PROGRAM 206	NONE	206	Aerospace AF04(69	15)-169	DATED 1 May 1962
10. TEST CODE 11. PRD PAGE NO. 12. INSTRUMENTATION SYSTEM 14 18. (SEE REVERSE SIDE OF FORM)	10. TEST CODE 11. PRD PAGE NO. 12	. INSTRUMENTATION SYSTEM			14 18. (SEE	REVERSE SIDE OF FORM)

- 14 General Information
  - A. Antenna type: Cavity
  - B. Frequency Range of Operations: Transmitter: 215 Mc to 260 Mc Receiver: 215 Mc to 265 Mc
  - C. Coverage Required: T-1 m to T+6 m
  - D. Frequency used for Pattern Measurements: 2300 Mc
  - E. Model Scale 1/10
- Transmitter Information: Total Fower Level at Transmitter Antenna: F = 249.9 Mc, nominal 41.5 dbm
- 16 Receiver Information: Minimum Power Level Required at Receiver Antenna System: F = 215-265 Mc: Unknown dbm
- 17 Polarization Information:
  Polarization Vector(s):
  Linear: 0 = 90°; 0/ = 0°, 180°

Note: This page is a continuation of PRD 152.1 and 152.2

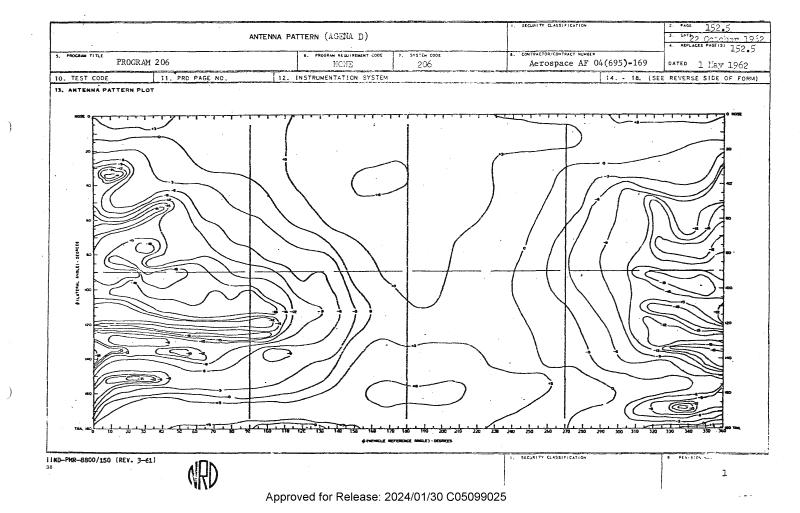
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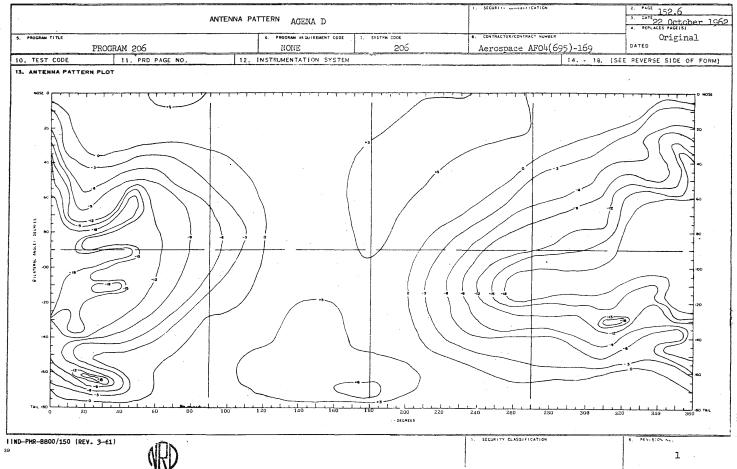
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				I, SECURITY CLAS	SIFICATION	2. PAGE 152.4
	TELEMETRY SYST	FM				3. 04722 October 1962
						4. REPLACES PAGE(S)
5. PROGRAM TITLE		6. PROJEAN REQUIREMENT CODE	7. SYSTEM CODE	8. CONTRACTOR/CO	ATRACY NUMBER	152.4
PROGRAM 206		NONE	206	Aerospace	AF04(695)-169	DATED 1 May 1962
	II. TRANSMITTER CHA	RACTERISTICS	12. ANTENNA CHARACT		13. DATA TO BE TRANS	0
A. TEST CODE: A.B.C.E.G.I	A. LOCATION: Agena-D	STAGE	A. LOCATION: STA.	°AZ	1. Provides Agena-	D performance data
,-,-,-,-			WITH REFERENCE TO TRUE			-
B. LINK FREQUENCY: 231.4 MC	B. TYPE: Crystal cont	trolled FM/FM	MISSILE IS ON LAUNCH PAD.	• .		
C. BAND WIDTH: + 150 KC	c. MODEL: #1313413-5: number is depender	nt on link	B. TYPE: Slot Cavity -	Ascent	2. Required during	checkout and flight
D. MAX. DEVIATION: 125 KC	frequency)	ed Electro	c. MODEL: 1310511 Ascer	it	-	
E. MIN. OEVIATION: 115 ± 10 KC	E. TYPE OF MODULATION:	Dynamics PAM/FM/FM	D. MANUFACTURER: IMSC			
F. NUMBER OF CHANNELS: 7 IRIG	F. EFFECTIVE RADIATED F	OWER 8 WATTS	E: PREDOMINANT POLARIZATI	on: Vertical		
COMMUTATED: 2	G. CENTER FREQUENCY TO PERCENTAGE OF FREQU		F. GAIN IN DB ABOVE ISOTROP	nc: +6 maximum		
G. NUMBER OF SEGMENTS / CHANNEL:			G. DIRECTIVITY AND BEANWID	TH IN AZIMUTH	1	
CHANNEL - SEGMENTS	H. PEAK PULSE POWER-PU	SE REPETITION	AND ELEVATION - 1 POWER	:		
15 60	FREQUENCY AND PULSE		-			-
16 60		ULSE WIDTH	H. IS THERE AVAILABLE A SPE			
	L CODING AND/OR MODULA		VES NO	'	1	
	(PCM): Not Applica				1	
H. STATE NON-IRIG PARTICULARS:	MOU ADDITION	note .	I. INDICATE THE AVAILABILIT	Y DATE OF THE	·	
All commutator points used	J. IS THERE AVAILABLE A S	PECTRUM ANALYSIS	ANTENNA PATTERN MEASUF	REMENTS.		
for data, calibration, or	REPORT ON THIS TRANSM	ITTER?	Refer to PRD 152.	3 and 152.4	·	
sync. 100% duty cycle non- return to zero between						
	•					
adjacent points.						
·						
IIND-PMR-8800/94 (REV. 3-61)				1. SECURITY CLAS	SIFICATION	9. REVISION NO.
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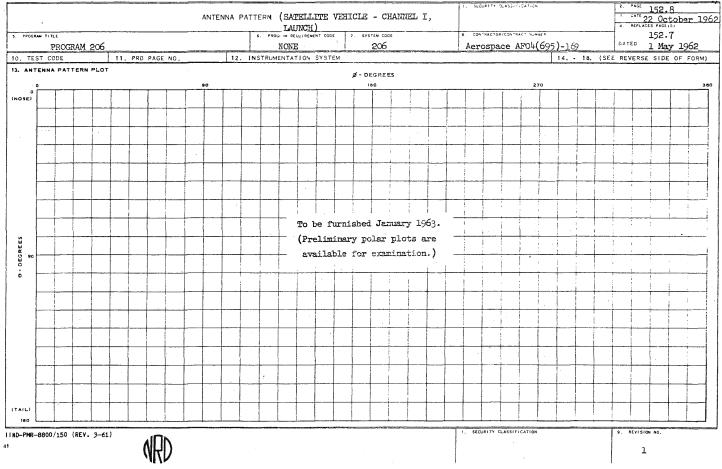
	TELEMETRY SYS	TEM (SATELLITE VEH	ICLE - XMTR #2, LAUNCH)	1. SECURITY CLASS	IFICATION	2. PAGE 152 .7 3. OATE 22 October 1962 4. REPLACES PAGE(S)	
5. PROGRAM TITLE PROGRAM 206		6. PROGRAM PEQUIFEMENT CODE NONE	7. SYSTEM CODE 206	8. CONTRACTOR/CON	AF04(695)-169	152.6 DAYED 1 May 1962	
GENERAL INFORMATION	TRANSMITTER CHA	RACTERISTICS	ANTENNA CHARACTERIS	TICS	13. DATA TO BE TRANSMITTED & REMARKS		
A. TEST CODE: A,B,C,E,G,I  B. LINK FREQUENCY: 248.6				* AZ	Real time transmission of satellite     vehicle performance data.		
C. BAND WIDTH: 500 K	C C. MODEL: GE		B. TYPE: Cavity back slot		2. Approximately multiplexed PA	8 measurements M/FM/FM and FM/FM.	
D. MAX. DEVIATION: +125 K	C D. MANUFACTURER: GE		C. MODEL: GE			9,000,000	
E. MIN. DEVIATION: +75 K	C E. TYPE OF MODULATION:	FM/FM PAM/FM/FM	o. MANUFACTURER: General E	lectric Co.			
F. NUMBER OF CHANNELS: 10 COMMUTATED: 2	F. EFFECTIVE RADIATED I	POWER 8 WATTS	E: PREDOMINANT POLARIZATION:	Linear EØ			
	G. CENTER FREQUENCY TO PERCENTAGE OF FREQUENCY	- 1	F. GAIN IN DE ABOVE ISOTROPIC: See PRD 152.8				
G. NUMBER OF SEGMENTS / CHANNEL:			G. OIRECTIVITY AND BEAMWIDTH IN	AZIMUTH			
CHANNEL - SEGMENTS	H. PEAK PULSE POWER-PU	LSE REPETITION	AND ELEVATION - 1 POWER:				
15, 16 30	FREQUENCY AND PULSE	WIDTH (PCM) PULSE WIDTH	See PRD 152.8	JM AHALYSIS			
	}		REPORT ON THIS ANTENNA?				
	L CODING AND/OR MODULA (PCM): N/A	TION CHARACTERISTICS	YES X NO			•	
H. STATE NON-IRIG PARTICULARS:	·		I. INDICATE THE AVAILABILITY DA	TE OF THE			
	J. IS THERE AVAILABLE A	SPECTRUM ANALYSIS	ANTENNA PATTERN MEASUREME	NTS.			
	REPORT ON THIS TRANSM	ALTTER!	See PRD 152.8				
		J	Insertion Loss: 3 db management in Impedance: 50 ohms nor Bandwidth for 2:1 VSWI minimum	ninal			
		*	· SV station				
		TEMS WHICH REQUIRE	S. Swotch				
ND-PMR-8800/94 (REV. 3-61)	.1 <b>n</b>	**************************************		1. SECURITY CLASSI	FICATION	9. REVISION NO.	

(NEV. 3-61)

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Approved for Release: 2024/01/30 C05099025

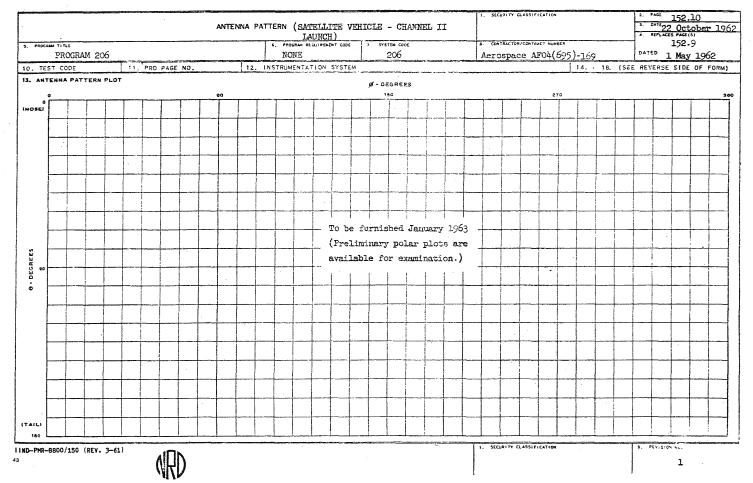
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		TELEMETRY SYSTEM (SATELLITE	VEHI	CLE - XMTR #1, LAUNCH)				A. REPLACES PAGE(S)	
S. PROGRAM TITLE		6. PROGRE HELD: PEMEN	NT CODE	7. SYSTEM CODE	8. CONTRACTOR/CCN			152.8	
PROGRAM 206		NONE	Same station	20€	Aerospace		)4 <b>(6</b> 95 <b>)-</b> 169	DATED 1 May 1962	
10. GENERAL INFORMATION		TRANSMITTER CHARACTERISTICS	1	ANTENNA CHARACTERIS	TICS	13.	DATA TO BE TRANSM	ITTED & REMARKS	
B. LINK FREQUENCY: 258.5	M.C	a. LOCATION: Satellite vehicle STAG B. TYPE: Crystal controlled FM-FM		A. LOCATION: STA. 73.38* WITH REFERENCE TO TRUE NORTH MISSILE IS ON LAUNCH PAD.	H WHEN clock time, ar			f vibration, vehicle d monitoring of EUC powered flight	
C. BAND WIOTH: 500 kc	ĸc	C. MODEL: GE		s. TYPE: Cavity back slot		2.	Required during	checkout and	
D. MAX. DEVIATION: +125	ĸc	D. HANUFACTURER: GE		C. WODEL: GE					
E. MIN. DEVIATION: +75	KC	E. TYPE OF MODULATION: FM/FM, PAM/FM/F	FM	D. MANUFACTURER: GE					
F. NUMBER OF CHANNELS: 4 COMMUTATED: 1		F. EFFECTIVE RADIATED POWER 8 W	ATTS	e. Predominant polarization: I	Linear EØ	A THE PARTY OF THE			
		G. CENTER FREQUENCY TOLERANCE IN PERCENTAGE OF FREQUENCY: 0.0]	%	F. GAIN IN DB ABOVE ISOTROPIC: See PRD 152.10 G. DIRECTIVITY AND BEAMWIDTH IN					
G. NUMBER OF SEGMENTS/CHANNEL: CHANNEL - SEGMENTS 13 30		H. PEAK PULSE POWER - PULSE REPETITION FREQUENCY AND PULSE WIDTH (PCM)		AND ELEVATION -   POWER: See PRD 152.10	AZIMUTH				
		FREQUENCY PULSE WIDTH		H. IS THERE AVAILABLE A SPECTRU REPORT ON THIS ANTENNA!	M ANALYSIS		•		
		I. CDDING AND/OR MODULATION CHARACTERIST (PCM):	TICS	YES 🗽 NO					
H. STATE NON-IRIG PARTICULARS:			- 1	I. INDICATE THE AVAILABILITY DAT					
None		J. IS THERE AVAILABLE A SPECTRUM ANALYSI REPORT ON THIS TRANSMITTER?	IS	ANTENNA PATTERN MEASURÉMEN	iTS.				
		YES X NO	ĺ	See PRD 152.10					
			J	J. Insertion Loss: 3 db m Impedance: 50 ohm nomi Bandwidth for 2:1 VSWR minimum	nal				
		NOTE: TRANSMITTING SYSTEMS WHICH REQUIRE EXTENSIVE PERIODS OF RF CHECKOUT TIME WILL BE REQUIRED TO BE EQUIPPIWITH A CLOSED LOOP OR NON-RADIATIN CHECKOUT OBVICE.	ED	*SV station					
IIND-PHR-8800/94 (REV. 3-61) PREVIOUS EDITIONS OF THIS FORM ARE DBSOLETE.	(I	<b>PD</b>			1. SECURITY CLASS	LFICAT.		9. REVISION NO.	
42	,	1\ <i>V</i>					}		

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		-000	(0.007.7.700.200		1. SECURITY CLASS	HEICATION		2. PAGE 152.11		
		TELEMETRY SYST	EM (SATELLITE VE ORBITAL FUNCT	MION)				3. DATE 22 October 1		
. PROGRAM TITLE			6. PROGRAM REQUIREMENT CODE		8. CONTRACTOR/CON			152.10		
PROGRAM 206			NONE	206	Aerospace	THE RESERVE AND ADDRESS OF THE PARTY OF THE	169	DATED 1 May 1962		
GENERAL INFORMATION	1	1, TRANSMITTER CHAI	RACTERISTICS	ANTENNA CHARACTE	ERISTICS	13. DATA TO BE TRANSMITTED & REMARKS				
A. TEST CODE: C,G,E	мс	a. Location:Satellite s. TYPE: Crystal con		A. LOCATION: STA. 73.38* WITH REFERENCE TO TRUE; MISSILE IS ON LAUNCH PAD.		<ol> <li>Playback of S/V performance recorded at 7.5 inches per s and played back at 30 in/sec</li> </ol>				
C. BAND WIDTH: 500	KC	C. MODEL: GE		s. TYPE: Cavity back s	lot	2. Requi	red for che	ckout & flight		
D. MAX. DEVIATION: +125	кс	D. MANUFACTURER: GE		C. MODEL: GE				R not used, can transmit		
E. MIN. OEVIATION: ±75	кс	E. TYPE OF MODULATION: ]	PAM/FM/FM FM/FM	D. MANUFACTURER: GE		& 13)	tinuous cha	channels (A, C, E,		
F. NUMBER OF CHANNELS: 8 or 4 commutateo: 3 or 1		F, EFFECTIVE RADIATED P	LERANCE IN	E: PREDOMINANT POLARIZATIO		input	signal may	smitter fail, its be switched to If Transmitter #2		
. NUMBER OF SEGMENTS/CHANNEL:		PERCENTAGE OF FREQU	ENCY: 0.01 %	G. DIRECTIVITY AND BEAMWIDTH IN AZIMUTH to this			, its input	may be switched ter. This capa-		
CHANNEL . SEGMENTS		H. PEAK PULSE POWER-PUL		AND ELEVATION - POWER:				tested during		
12, 14 30 10 90		FREQUENCY AND PULSE FREQUENCY P	WIDTH (PCM) ULSE WIDTH	See PRD 152.10 H. IS THERE AVAILABLE A SPEC	TRUM ANALYSIS	pre-la	unch opera	tions.		
or 13 30		L CODING AND/OR MODULAT	TION CHARACTERISTICS	REPORT ON THIS ANTENNA!		•				
STATE NON-IRIG PARTICULARS:			•	I. INDICATE THE AVAILABILITY	DATE OF THE					
One 90 x 1/18 channel to be recorded and		J. IS THERE AVAILABLE A S REPORT ON THIS TRANSM		ANTENNA PATTERN MEASURE See PRD 152.10	EMENTS.					
to be recorded at the simultaneously transmitted on the real time xmitter, XMTR #2.		YES	] NO	J. Insertion loss: 3 Impedance 50 clm Bandwidth for 2:1 minimum	nominal					
				*SV station						
IND-PMR-8800/94 (REV. 3-61) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.	<b>AF</b>	WITH A CLOSED LOG			1. SECURITY CLASS	IFICATION .		9. REVISION NO.		

	TELEMETRY SYST	<sub>EM</sub> (SATELLITE VEHI ORBITAL FUNCTI	[ON )	s. SECURITY CLASS		2. PAGE 152.12  3. DATE 22 October 196  4. REPLACES PAGE(S)  152.11
5. PROGRAM TITLE PROGRAM 206		NONE	7. SYSTEM CODE 206	1	AF04(695)-169	DATED 1 May 1962
market on the second of the se	11. TRANSMITTER CHA		12. ANTENMA CHARACTERIS		13,	SMITTED & REMARKS
A. TEST CODE: C,G,E  B. LINK FREQUENCY: 248.6 MC  C. BAND WIDTH: 500 KC	A. LOCATION: Satellit B. TYPE: Crystal con C. MODEL: GE		A. LOCATION: STA. 73.38* WITH MEFERENCE TO TRUE MOR MISSILE IS ON LAUNCH PAD.  8. TYPE: Cavity back slot	° AZ	3. Should this t	checkout & flight
D. MAX. DEVIATION: ±125 KC  E. MIN. DEVIATION: ±775 KC  F. NUMBER OF CHANNELS: 12  COMMUTATED: 5	D. MANUFACTURER: GE  E. TYPE OF MODULATION:  F. EFFECTIVE RADIATED F	FM/FM	C. MODEL: GE D. MANUFACTURER: E: PREDOMINANT POLARIZATION: Linear EØ		Transmitter # fails, its im to this transmit	may be switched to 1. If Transmitter #1 put may be switched nitter. This capa- be tested during erations.
G. NUMBER OF SEGMENTS / CHANNEL:  CHANNEL - SEGMENTS 15,16,12,14 30 10 90	G. CENTER FREQUENCY TO PERCENTAGE OF FREQUE H. PEAK PULSE POWER-PU FREQUENCY AND PULSE FREQUENCY P I. CODING AND/OR MODULA (PCM):	ENCY: 0.01 %  LSE REPETITION  WIDTH (PCM)  PULSE WIDTH	F. GAIN IN DB ABOVE ISOTROPIC: See PRD 152.8  G. DIRECTIVITY AND BEAMWIDTH IN AND ELEVATION - 1 POWER: See PRD 152.8  H. IS THERE AVAILABLE A SPECTRE REPORT ON THIS ANTENNA?  YES X NO		•	• •
H. STATE NOM-IRIG PARTICULARS:  One 90 x 1/18 channel	J. IS THERE AVAILABLE A S REPORT ON THIS TRANSM TYPES TYPES TYPES	UTTERT	I. INDICATE THE AVAILABILITY DA ANTENNA PATTERN MEASUREMEN See PRD 152.8  J. Insertion Loss: 3 db Impedance: 50 ohm no Bandwidth for 2:1 VS; minimum	maximum minal		
IND-PMR-8800/94 (REV. 3-61)	TIME WILL BE REQU	3	*SV station	1. SECURITY (LASS)	III NO	9. REVISION NO.

IIND-PMR-8800/94 (REV. 3-61)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



Approved for Release: 2024/01/30 C05099025

				1. SECURITY CLASS	SIFICATION	2. PAGE 152 13
	TELEMETRY SYST	em satellite v	ehicle transmitter #3			3. DATE 22 October 1962
S. PROGRAM TITLE PROGRAM 206		6. PHOGRAM PEQUIREMENT CORE NONE	7. SYSTEM CODE 206	Aerospaci	TRACT **UMBER  AF04(695)-169	Original DATED
IO. GENERAL INFORMATION	TRANSMITTER CHA	RACTERISTICS	ANTENNA CHARACT	'E AISTICS	13. DATA TO BE TRANS	MITTED & REMARKS
A. TEST CODE: C.G.E.I  B. LINK FREQUENCY: 242.0	a. LOCATION: SV	STAGS	A. LOCATION: STA. 38.0 WITH REFERENCE TO TRUE WISSILE IS ON LAUNCH FAD.	SAZ	1. Real time tranduring flight.	smission of satellite
C. BAND WIDTH: 300 KC	c. MODEL: 103C4277	-G12	e. TYPE: 1/4-wave, stu	р	2. Approximately monitored.	20 parameters
D. MAX. DEVIATION: + 120 KG	D. MANUFACTURER: GE		flight.			g checkout and
E. MIN. DEVIATION: ± 75 KC	E. TYPE OF MODULATION:	FM/FM	D. HANUFACTURES GE		The second secon	
F. NUMBER OF CHANNELS: 14 COMMUTATED: Zero	F. EFFECTIVE PADIATED F	POWER 2 WATTS	E: PREDOMINANT POLARIZATI			
G. NUMBER OF SEGMENTS / CHANNEL:	G. CENTER FREQUENCY TO PERCENTAGE OF FREQU	ENCY: 0.01 %	F. GAIN IN DB ABOVE ISOTROP  2 db above isotroph  G. DIRECTIVITY AND SEAMYD	ic		
CHANNEL - SEGMENTS	H. PEAK PULSE POWER-PU FREQUENCY AND PULSE FREQUENCY F	LSE REPETITION	and elevation : Fower omni-directional A elevation 1/2 power. IS There available a spe	Z 400	-	
N/A	N/A L CODING AND/OR MODULA (PCM):		REPORT ON THIS ANTENNAT		. •	
H. STATE NON-IRIG PARTICULARS:	N/A	1	. INDICATE THE AVAILABILIT			
None	J. IS THERE AVAILABLE A S REPORT ON THIS TRANSM YES		j. Insertion loss: Impedance: 50 oh Bandwidth for 2: +300 kc minimum	+5 db n nominal		
			me and an an an an an an an an an an an an an			
•	***************************************	11 PROPERTY OF THE PROPERTY OF				
IND-PMR-8800/94 (REV. 3-61)	, chacked before	The same of the sa		1. SECURITY CLASS	IFICATION	9. REVISION NO.

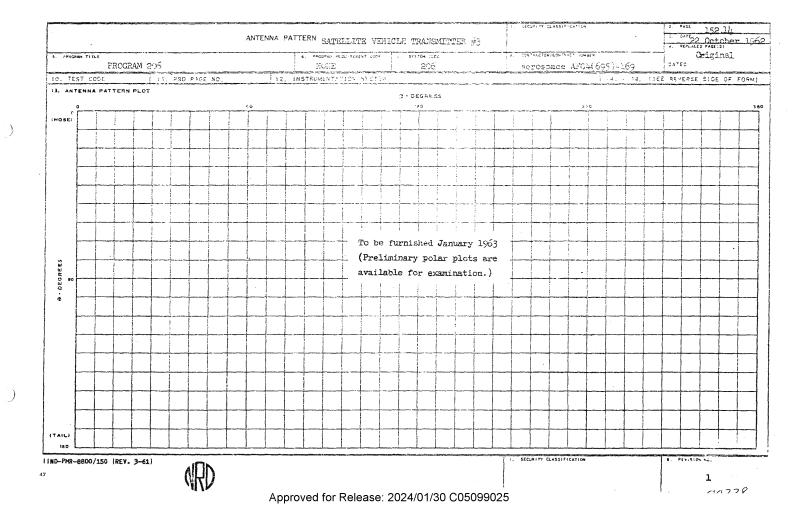
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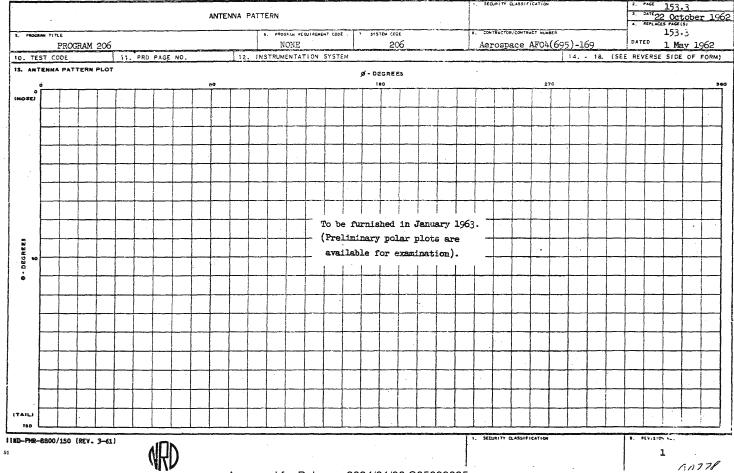
Approved for Release: 2024/01/30 C05099025



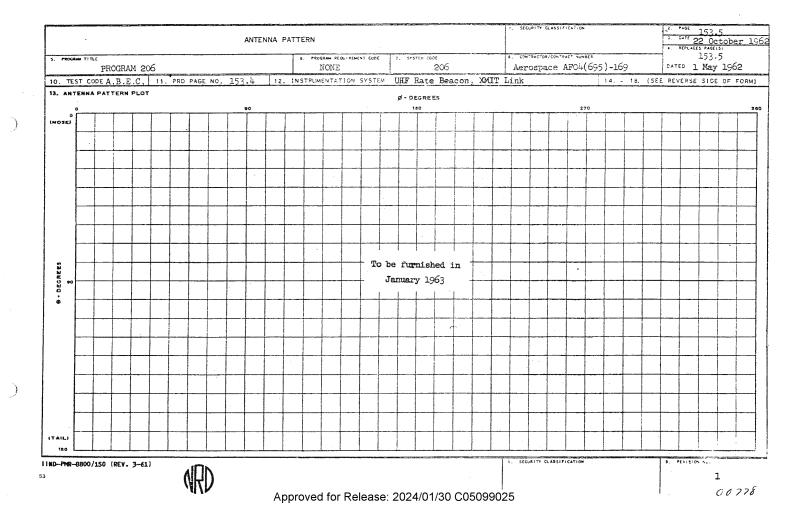
				A STATE OF THE STA	411.39	153	
	TRANSPONDERS AN	D BEACONS(MARK II .	ATLAS RATE BEACON)			22 October ]	1962
						ì	-
S. PROCRAM TITLE		6 PROGRAM 1 AUGINEMENT CODE		10 (1973) 7/3 19		153	
PROGRAM 206		NONE	205	: Aarospace	AF04(695)-169	1 May 1962	
IG. GENERAL INFORMATION	TRANSHITTER CH		RECEIVER SHAPACTERS		13. ANTEXHA CHAR	ACTERISTICS	
A. TEST CODE: A,B,C,D,G,H	A. FREQUENCY RANGE:230	0 + 0.22 uc	A. FREQUENCY RANGE 1150 +	0.11 ac	A. LOCATION: STA.	,	ÅZ
B. PURPOSE:	B. TUNABLE	FIXED TUNED	a. □ TUNASUE - ½ Fix3	ED TUMED	(2)Slotted 37A. 1045	, 225	*AZ
RANGE SAFETY-IMPACT PREDICTION	C. SANOWIGTH AT 3GE:		C. INTERMEDIATE PREDUCINGY:		STA.	,	° A Z
MIDCOURSE TRAJECTORY DATA	AND AT 6008:	МC	D. LOCAL OSCILLATOR FREDUENC		STA.	i	°AZ
TERMINAL TRAJECTORY DATA	D. EMISSION: AM, F	M, []PULST.	E RELOW INTERPOSATION FR	EQUENCY	WITH PEFERENCE TO TH	UE HORTH AFTER THE	
TELEMETH?	COMPOSITE NONSTÂNI	DARD CW	E. METHOD OF FREQUENCY CONTA	ioL:	VEHICLE IS ERECTED ON	THE LAUNCH PAD.	
x Atlas guidance	E. FREQUENCY STABILITY:	N/A More			e. Traveling-W	ave	
x (range rate)	F. AVERAGE POWER:	5.3 *ATTS	F. FREQUENCY STABILITY: 4 0.1	l sc	C. MODEL: Mark II		
C. LOCATION: Atlas D STAGE	G. PEAK PULSE POWER: N/	A #ATIS	G. SENSITIVITY:		D. HANUFACTURER: CE		
D. TYPE: (X) TRANSPONDER ( BEACON	H. MAXIMUM PRF: N/A	2PS	MAXIMUM: DSW.A.	t wc	E. FREQUENCY RANGE:L-	and M-band	MC
E. MODEL: Mark II	I. PULSE WIDTHS: N/A	ıs, us, us	AGGINUM: DSM 4	r vic	F TUNASLE	X FIXED TUNED	
F. MANUFACTURER: GE	AT 3DB POINTS		NOMINAL: -90 084 A	т 1150 мс	G. PREDOMINANT POLARIZA	TION; (CHECK ONLY ONE)	
G. INTERROGATION FULSE CODE	J. FIXED DELAY SETTINGS:	N/A us, us	H. SELECTIVITY: IOVERALLI N	/A	M VERTICAL		
CAPABILITIES: N/A	K. MAXIMUM DELAY VARIATI	ON WITH SIGNAL	303	MC	- HORIZONTAL		
SINGLE PULSE OOUBLE PULSES	STRENGTH FROM IDBM TO	WITHIN SORM OF MAXE	2009	мс	CIRCULAR: SENSE:	LH RH	
DOUBLE PULSE SPACING	MUM SENSITIVITY OF REC	EIVER: N/A us	60DB	мс	OTHER		
± us	L. RECOVERY TIME: N/A	US	1. TYPE AGC: Limited		H. MAXIMUM GAIN IN DB WIT	H RESPECT TO	
± us	M. MINIMUM FREQUENCY SEP	ARATION REQUIRED	J. AGC TIME CONST: N/A	us	ISOTROPIC:11 10.	0	80
± us	BETWEEN TRANSMITTER	AND RECEIVER 1150 MC	K. RECOVERY TIME TO 308 POINT:	N/A us	1. MAXIMUM NULL IN OB WIT	H RESPECT TO	
TRIPLE PULSES	N. NOMINAL WARM-UP TIME:	2 MINUTES	L. NOMINAL WARM-UP TIME:	2 MINUTES	isotropic: To be s	upplied later	90
PULSE SPACINGS	O. IS THERE AVAILABLE AS	PECTRUM ANALYSIS	M. IS THERE AVAILABLE A SPECTR	IUM ANALYSIS	WITHIN 60" FOR AZUSA, 1	20 FOR RADAR, OF	
FIRST & SECOND PULSES	REPORT ON THIS TRANSM	ITTER! TES X NO	REPORT ON THIS RECEIVER COVERING THE LONGITUDINAL AXIS OF MAIN			(AIN LOBE).	
1 05	(IF YES, PROVIDE ONE CO	PY)	FREQUENCY RANGE 109 MC TO H	0,000 MC?	J. MAIN LOBE BEAMWIDTH IN	DEGREES AT 308 POINTS	ie i
t us	P. ATTACH A PLOT OF ANTE	ENNA INPUT POWER	TYES X NO HE YES, PRO	VIOE ONE COPYI	ELEVATION: 145	, azimuth 35, 60	
t · us	VS TRANSMITTER FREQU	ENCY.			K. INDICATE AVAILABILITY	DATE OF ANTENNA PATTS	ERN
SECONO & THIRD PULSES	N/A	1			MEASUREMENTS NOT	Required	
± us	Input power does no				L. IS THERE AVAILABLE A S	PECTRUM ANALYSIS REPO	RT
2 43	transmitter frequen				ON THIS ANTENNA?	YES X NO	
± us	transmitter ireque	icy-keyed system.			(IF YES, PROVIDE ONE CO	(PY)	
H. COMMAND CONTROL CODE	1				M. USE APPROPRIATE SPAR	RE FORMS FOR ANTENNA 3	,
CAPABILITIES: N/A	1				PATTERN AND ANTENNA		
NUMBER OF COMMAND CHANNELS					Not required	· · · · · · · · · · · · · · · · · · ·	
AVAILABLE:		į			noc redurred		
TYPE OF PULSE MODULATION:							
I. POWER REQUIREMENTS:	NOTE: QUANTITATIVE OATA	FURNISHED ON THIS PAG	E SHOULD BE MEASURED VALUES A	FTER NOMINAL WA	RMUP TIME.		
28 VOLTS, 140 WATTS	WHERE APPLICABLE		UNMEASURED VALUES SHOULD BE I			·	[
IIND-PMR-8800/95 (REV. 3-61)	·			1. SECURITY CLASS.	FICATION .	9. REVISION NO.	
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			er er er er er er er er er er er er	1. PERCHAPTY FLASS	Fr2A*ION	2. PAGE 153 . T
	TRANSPONDERS AN	D BEACONS (MARK II	ATLAS GUIDANCE PULS	E		3. DATE22 October 196
		BEACON)				4. REPLACES PAGE(5)
5. PROGRAM TITLE		5. PHOGRAM REQUIREMENT CODE		a. CONFRACTOR CUN		153.1
PROGRAM 206		NONE	206	Aerospace	e AFO4(695)-169	DATED 1 May 1962
GENERAL INFORMATION	TRANSMITTER CH	ARACTERISTICS	RECEIVER CHARA	CTERISTICS	ANTENNA CHARA	ACTERISTICS
A. TEST CODE: A,B,C,D,G,H	A. FREQUENCY RANGE: 88	50 <u>+</u> 20 мс	A. FREQUENCY RANGE: 89	)3 <b>5 ± 1.</b> 0 vc	A. LOCATION: STA. 918	, 45 °AZ
B. PURPOSE: Pulse beacon	B. TUNABLE	X FIXED TUNED	B. TUNABLE	FIXED TUNED	STA. 1045	, 225 *Az
RANGE SAFETY-IMPACT PREDICTION	C. BANDWIDTH AT 30B:	MC,	C. INTERMEDIATE FREQUEN	cy: 30 <b>Mc</b>	STA.	AZ
MIDCOURSE TRAJECTORY DATA	AND AT SODE: N	/A wa	D. LOCAL OSCILLATOR FRE	DUENCY ABOVE,	STA.	, AZ
TERMINAL TRAJECTORY DATA	D. EMISSION: AM, F	M, X PULSE.	X BELOW INTERROGATION	ON FREQUENCY	WITH REFERENCE TO TR	UE NORTH AFTER THE
TELEMETRY	COMPOSITE NONSTAN		E. METHOD OF FREQUENCY	CONTROL:	VEHICLE IS ERECTED ON	
🕱 Atlas guidance	E. FREQUENCY STABILITY:	± N/A Mc/c°			B. TYPE: Traveling-W	ave, slot
(x: Position data	F. AVERAGE POWER: 0.3		F. FREQUENCY STABILITY:	1.0 MG	C. MODEL: Mark II	
C. LOCATION: Atlas D STAGE	G. PEAK PULSE POWER: 1.	51 x 103 WATTS	G. SENSITIVITY;		D. MANUFACTURER: GE	
D. TYPE: [X] TRANSPONDER BEACON	H. MAXIMUM PRF: 142	PPS	MAXIMUM:	DSM AT MC	E. FREQUENCY RANGE: X-	band Mc
e. Model: Mark II	I. PULSE WIDTHS: 2	us, us, us	MINIMUM:	DSM AT MC	F. TUNABLE	FIXED TUNED
F. MANUFACTURER: GE	AT 308 POINTS		NOMINAL: -70	овмат 8935 мс	G. PREDOMINANT POLARIZA	TION: (CHECK ONLY ONE)
G. INTERROGATION PULSE CODE	J. FIXEO DELAY SETTINGS:	N/A us, us	H. SELECTIVITY; (OVERALL	)	X VERTICAL	
CAPABILITIES: N/A	K. MAXIMUM DELAY VARIATI	ON WITH SIGNAL	зов N/A	мс	HORIZONTAL	
SINGLE PULSE DOUBLE PULSES	STRENGTH FROM 108M TO		20DB	мс	CIRCULAR: SENSE:	LH
DOUBLE PULSE SPACING	MUM SENSITIVITY OF REC	EIVER: ±0.1 US	60DB	MC	OTHER	
t us	L. RECOVERY TIME: N/A	US	I. TYPE AGC: Gated		H. MAXIMUM GAIN IN DB WITH	RESPECT TO
t us	M. MINIMUM FREQUENCY SEP	ARATION REQUIRED	J. AGC TIME CONST: N/A	us	ізотворіс: 13, 11	DB
± US	BETWEEN TRANSMITTER	AND RECEIVER 85 MC	K. RECOVERY TIME TO 3DB F	OINT: N/A US	I. MAXIMUM NULL IN DB WIT	
TRIPLE PULSES	N. NOMINAL WARK-UP TIME:	2 MINUTES	L. NOMINAL WARM-UP TIME:	2 MINUTES	isotropic: To be su	pplied later De
PULSE SPACINGS	O. IS THERE AVAILABLE A S	PECTRUM ANALYSIS	M. IS THERE AVAILABLE A SE	PECTRUM ANALYSIS	WITHIN 60" FOR AZUSA, 12	20 FOR RADAR, OF
FIRST & SECOND PULSES	REPORT ON THIS TRANSM	ITTER? TYES INO	REPORT ON THIS RECEIVE	R COVERING THE	LONGITUDINAL AXIS OF M	IAIN LOBE).
6.1 ± 0.05 us	(IF YES, PROVIDE ONE CO	PYI	FREQUENCY RANGE 100 MG	TO 10,000 MC?	J. MAIN LOBE BEAMWIDTH IN	DEGREES AT 3DB POINTS:
± Us	P. ATTACH A PLOT OF ANTE	HNA INPUT POWER	YES XINO UF YES	, PROVIDE ONE COPY)	ELEVATION: 13, 35	.AZIMUTH 19. 35
ı · us	VS TRANSMITTER FREQUE	ENCY.			K. INDICATE AVAILABILITY	DATE OF ANTENNA PATTERN
SECONO & THIRD PULSES	N/A				MEASUREMENTS Not	required
6.1 ± 0.05 us					L. IS THERE AVAILABLE A S	PECTRUM ANALYSIS REPORT
± us					ON THIS ANTENNA?	YES ZINO
± US		į			IF YES, PROVIDE ONE CO	PY)
H. COMMAND CONTROL CODE					M. USE APPROPRIATE SPAR	E FORMS FOR ANTENNA D
CAPABILITIES: N/A					PATTERN AND ANTENNA	
NUMBER OF COMMAND CHANNELS					Not required	STOTEM SCHEMETTE.
AVAILABLE: 1		Į			• • • • •	
TYPE OF PULSE MODULATION: CONSTAI	t					
I. POWER REQUIREMENTS:	NOTE: QUANTITATIVE DATA	FURNISHED ON THIS PAG	E SHOULD BE MEASURED VAL	UES AFTER NOMINAL WA	MUP TIME.	
28 VOLTS. 42 WATTS	WHERE APPLICABLE	THE DATA SOURCES OF	UNMEASURED VALUES SHOUL	D BE INDICATED BY FOO	TNOTE.	
IND-PHR-8800/95 (REV. 3-61)	<b>n</b>			1. SECURITY CLASSI	FICATION	9. REVISION NO.
, Al	HN			1		
/ <b>A</b>	<b>K</b> U					1
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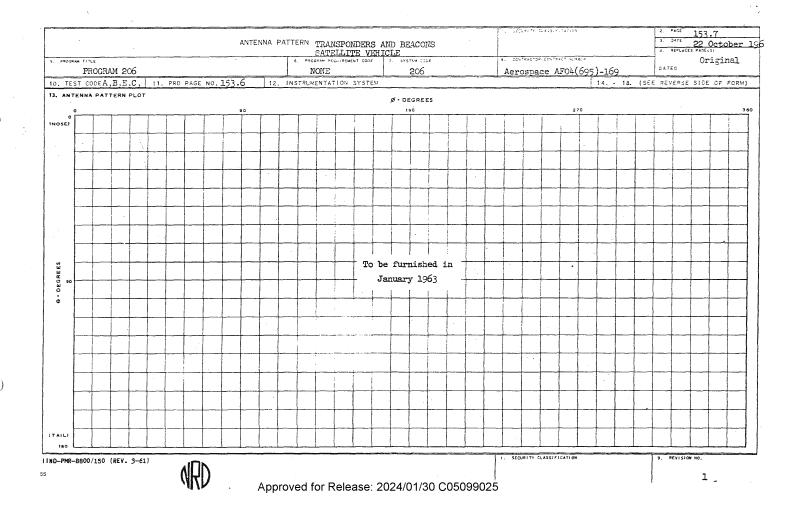
announcing communicate of the Household and the second			: SECURITY CLASSI	FICATION	2. PAGE 153.2
	TRANSPONDERS AND BEACONS (SATELLI	TE VEHICLE S-BAND			3. PATE 22 October 1962
	TRANSPO				4. REPLACES PAGE(S)
5. PROGRAM TITLE	4. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE	S. FONTRACTOR/CONT	RACT NUMBER	153.2
PROGRAM 206	NONE	206	Aerospace	AF04(695)-169	CATEC 1 May 1962
10. GENERAL INFORMATION	TRANSMITTER CHARACTERISTICS	RECEIVER CHARACTERIST	ics	13. ANTENNA CHARA	CTERISTICS
A. TEST COOE: A,B,E,G,I	A. FREQUENCY RANGE: 2920 MC	A. FREQUENCY RANGE: 2850	мс	A. LOCATION: STA. NOT Y	et determined "AZ
B. PURPOSE:	8. [X] TUNABLE [] FIXED TUNED	B. X TUNABLE FIXED	TUNED	STA.	, *AZ
RANGE SAFETY-IMPACT PREDICTION	C. BANDWIDTH AT 3DB: MC,	C. INTERMEDIATE FREQUENCY: 50	Mc	STA.	, °AZ
MIDCOURSE TRAJECTORY DATA	AND AT 60DB: MC	D. LOCAL OSCILLATOR FREQUENCY	X ABOVE,	STA.	, AZ
TERMINAL TRAJECTORY DATA	D. EMISSION: AM, FM, X PULSE,	BELOW INTERROGATION FREE	DUENCY	WITH REFERENCE TO TRI	UE NORTH AFTER THE
TELEMETRY	COMPOSITE NONSTANGARD	E. METHOD OF FREQUENCY CONTRO	L:	VEHICLE IS ERECTED ON	THE LAUNCH PAD.
X! Orbit tracking and	E. FREQUENCY STABILITY: ± 2 MC/C°	Pre-selected cavity		B. TYPE: Cavity back	slot
[ primary command link	F. AVERAGE POWER: 0.5 (at 410 pps) WATTS	F. FREQUENCY STABILITY: ± 2	MC	C. MODEL:	
c. LDCATION: Re-entry vehicle	G. PEAK PULSE POWER: 1200 WATTS	G. SENSITIVITY;		D. MANUFACTURER:	
D. TYPE: X TRANSPONDER _ BEACON	H. MAXIMUM PRF: 2000 PPS	махімим: -70 овмат	2900 Mc	E. FREQUENCY RANGE:	мс
E. MODEL:Not yet available	I. PULSE WIDTHS: US, US, US	MINIMUM: -65 DBM AT	2900 мс	F. TUNABLE	FIXED TUNED
F. MANUFACTURER: AVION	AT 308 POINTS 0.8 + 0.2	NOMINAL: -68 DEMAT	2900 мс	G. PREDOMINANT POLARIZA	TION: (CHECK ONLY ONE)
G. INTERROGATION PULSE CODE	J. FIXED DELAY SETTINGS: US, US	H. SELECTIVITY: (OVERALL)		A VERTICAL	
CAPABILITIES:	K. MAXIMUM DELAY VARIATION WITH SIGNAL	3DB 8 ± 2	мс	HORIZONTAL	
SINGLE PULSE 🛣 DOUBLE PULSES	STRENGTH FROM 108M TO WITHIN 5 DBM OF MAXI-	20DB 20 + 2	MC	CIRCULAR: SENSE:	LH RH
DOUBLE PULSE SPACING	MUM SENSITIVITY OF RECEIVER: US	600B 40 ± 2	Mc	OTHER	•
36 ± 0.05 us	L. RECOVERY TIME: 200 US	i. TYPE AGC: None		H. MAXIMUM GAIN IN DE WITH	RESPECT TO
ż US	M. MINIMUM FREQUENCY SEPARATION REQUIRED	J. AGC TIME CONST: None	us	ISOTROPIC: +3	DB
± Us	BETWEEN TRANSMITTER AND RECEIVER 70 MC	K. RECOVERY TIME TO 3DB POINT:	10 us	L MAXIMUM NULL IN DB WIT	H RESPECT TO
X TRIPLE PULSES 36 + .05 US	N. NOMINAL WARM-UP TIME: 3 MINUTES	L. NOMINAL WARM-UP TIME: 3	MINUTES	ISOTROPIC: -12	DB
PULSE SPACINGS	O. IS THERE AVAILABLE A SPECTRUM ANALYSIS	M. IS THERE AVAILABLE A SPECTRUI	ANALYSIS	(WITHIN 60° FOR AZUSA, 12	O FOR RADAR, OF
FIRST & SECOND PULSES	REPORT ON THIS TRANSMITTER? TYES X NO	REPORT ON THIS RECEIVER COVE	RING THE	LONGITUDINAL AKIS OF M	AIN LOSE).
5 ± 0.25 us	IIF YES, PROVICE ONE COPY)	FREQUENCY RANGE 100 MC TO 10,0	900 MC?	J. MAIN LOBE BEAMWIDTH IN	DEGREES AT 3DB POINTS:
11 : 0.25 us	P. ATTACH A PLOT OF ANTENNA INPUT POWER	TYES TO HE YES, PROVI	DE ONE COPY)	ELEVATION:	, AZIMUTH
19 2 0.25 05	VS TRANSMITTER FREQUENCY.			K. INDICATE AVAILABILITY	DATE OF ANTENNA PATTERN
First a THIRD PULSES			l	MEASUREMENTS	
36 ± 0.05 us	NOTE: The video output of the S-be			L. IS THERE AVAILABLE A SI	PECTRUM ANALYSIS REPORT
ž US	pulse position demodulator.	This will not affect nor	mal	ON THIS ANTENNA?	ES ANO
ż Us	S-band transponder operation	1.		(IF YES, PROVIDE ONE COL	PYI
H. COMMAND CONTROL CODE			,	M. USE APPROPRIATE SPAR	F FORMS FOR ANTENNA D
CAPABILITIES:				PATTERN AND ANTENNA	
NUMBER OF COMMAND CHANNELS				Antenna pattern av	
AVAILABLE: Unlimited	•			August 1962.	GITTEDTE III
TYPE OF PULSE MODULATION: POSITION Of center pulse POWER REQUIREMENTS:	NOTE: QUANTITATIVE DATA FURNISHED DN THIS DAG			0	
24 - 30 devours, 40 - 60 WATTS		E SHOULD BE MEASURED VALUES AFT UNMEASURED VALUES SHOULD BE IN	TER NOMINAL WAR	NOTE	
IIND-PMR-8800/95 (REV. 3-61)			1. SECURITY CLASSI		9. REVISION NO.
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(1)	<b>长</b> ひ				Τ .
. "	Annroyed for Releas	e: 2024/01/30 C0509903	25	I	-



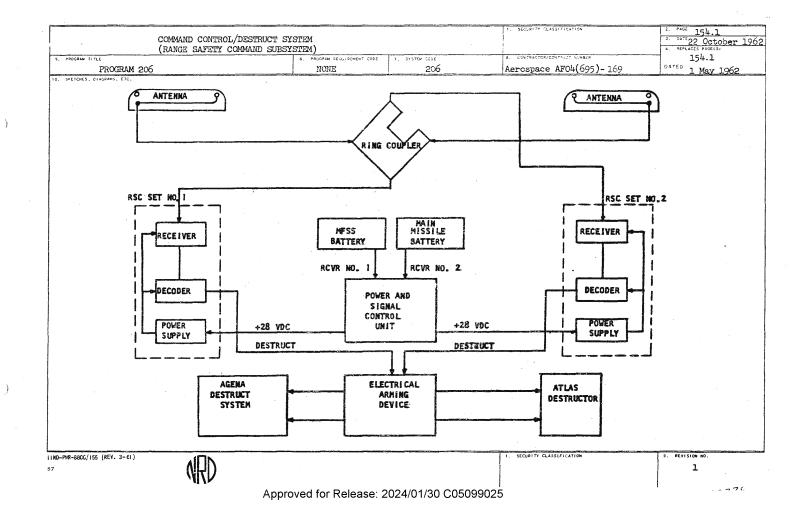
-	TRANSPONDERS AND	BEACONS (UHF	DOPF	PLER TRANSPONDER)	1 : 6865 H - FY CE 455		<sup>2. PAGE</sup> 153 .4 <sup>1. SATE</sup> 22 October 1962	
							153.4	
S. PROGRAM TITLE		6. PROGRAM REQUIREME	NE CODE	7. SYSTEM JODE	G CONTRACTOR ION		1 7 7	
PROGRAM 206		NONE	and the same of	206	Aerospa	ce AF04(695)-169	EATED 1 May 1962	
10. GENERAL INFORMATION	TRANSMITTER CH.	ARACTERISTICS		RECEIVER CHARACTI	ERISTICS	13. ANYENNA CHARACTERISTICS		
A. TEST CODE: A,B,C,E,G	A. FREQUENCY RANGE: 40	D-403	MC	A. FREQUENCY RANGE: 375-	-378 мс	A. LOCATION: STA.	, °AZ	
B. PURPOSE:	8. TUNABLE	FIXED TUNED		B. TUNABLE	FIXED TUNED	STA.	, <sup>e</sup> Az	
RANGE SAFETY-IMPACT PREDICTION	C. BANDWIDTH AT 309:		MC,	C. INTERMEDIATE FREQUENCY	:	STA.	, °AZ	
MIDCOURSE TRAJECTORY DATA	AND AT 60DB:		MC	D. LOCAL OSCILLATOR FREQUE	ENCY 🔲 ABOVE,	STA.	, AZ	
TERMINAL TRAJECTORY DATA	D. EMISSION: AM, F		j	BELOW INTERROGATION	FREQUENCY	WITH REFERENCE TO TR	UE NORTH AFTER THE	
TELEMETRY	CW (Phase-lock	)	1	E. METHOD OF PREQUENCY CO	NTROL:	VEHICLE IS ERECTED ON	THE LAUNCH PAD.	
[1] ·	E. FREQUENCY STABILITY:	: M	c/c°			B. TYPE:		
C i	F. AVERAGE POWER:	Y	VATTS	F. FREQUENCY STABILITY: t	MC	C. MODEL:		
C. LOCATION: STAGE	G. PEAK PULSE POWER:	Y	VATTS	G. SENSITIVITY;		D. MANUFACTURER:		
D. TYPE: TRANSPONDER BEACON	H. MAXIMUM PRF:		PPS	MAXIMUM: -110 DB	мат 375-378 мс	E. FREQUENCY RANGE:	MC	
E. MODEL:	I. PULSE WIDTHS: L	is, us,	Us	мимим: -10 эвя	м ат 375-378 мс	F. TUNABLE	FIXED TUNED	
F. MANUFACTURER:	AT 308 POINTS			NOMINAL: DSM	мат мс	G. PREDOMINANT POLARIZA	TION; (CHECK ONLY ONE)	
G. INTERROGATION PULSE CODE	J. FIXED DELAY SETTINGS:	us,	us	H. SELECTIVITY; (OVERALL)		VERTICAL		
CAPABILITIES:	K. MAXIMUM DELAY VARIATI	ON WITH SIGNAL		303	мс	HORIZONTAL		
SINGLE PULSE OOUBLE PULSES	STRENGTH FROM 108M TO	WITHIN 5 DBM OF M	IAXI-	2008	мс	CIRCULAR: SENSE:	LH RH	
DOUBLE PULSE SPACING	MUM SENSITIVITY OF REC	EIVER:	iJS .	600a	MC	OTHER		
± US	L. RECOVERY TIME:		us	I. TYPE AGC:		H. MAXIMUM GAIN IN DB WITH	RESPECT TO	
± US	M. MINIMUM FREQUENCY SEP	ARATION REQUIRED	,	J. AGC TIME CONST:	us	ISOTROPIC:	OB	
± US	BETWEEN TRANSMITTER	ND RECEIVER	MC	K. RECOVERY TIME TO 3DB POI	NT: US	I. MAXIMUM NULL IN DB WIT	H RESPECT TO	
TRIPLE PULSES	N. NOMINAL WARM-UP TIME:	MINUT	ES	L. NOMINAL WARM-UP TIME:	MINUTES	ISOTROPIC:	DB	
PULSE SPACINGS	O. IS THERE AVAILABLE A S	PECTRUM ANALYSIS	: 1	M. IS THERE AVAILABLE A SPEC	CTRUM ANALYSIS	(WITHIN 60" FOR AZUSA, 1	20 FOR RADAR, OF	
FIRST & SECOND PULSES	REPORT ON THIS TRANSMI	TTER! TES	ON	REPORT ON THIS RECEIVER	COVERING THE	LONGITUDINAL AXIS OF N	IAIN LOBE).	
± US	(IF YES, PROVIDE ONE CO	PY)		FREQUENCY RANGE 100 MC T	O 10,000 MC?	J. MAIN LOBE BEAMWIDTH IN DEGREES AT 3DB POINTS:		
± us	P. ATTACH A PLOT OF ANTE	NNA INPUT POWER	- 1	TYES NO UF YES, F	PROVIDE ONE COPY	ELEVATION:	AZIMUTH	
± 'US	VS TRANSMITTER PREQUI		- 1			K. INDICATE AVAILABILITY	DATE OF ANTENNA PATTERN	
SECONO & THIRD PULSES			i			MEASUREMENTS		
ż US			1			L. IS THERE AVAILABLE A S	PECTRUM ANALYSIS REPORT	
± US			1			ON THIS ANTENNA?	YES NO	
ż . Us						(IF YES, PROVIDE ONE CO	PY)	
H. COMMAND CONTROL CODE						M. USE APPROPRIATE SPAR	F FORMS FOR ANTENNA D	
CAPABILITIES:	-		- 1			PATTERN AND ANTENNA		
NUMBER OF COMMAND CHANNELS			l	* **				
AVAILABLE:			i			Available 30 June	: 1962	
TYPE OF PULSE MODULATION:			- 1					
I, POWER REQUIREMENTS:	NOTE: QUANTITATIVE DATA	FURNISHED ON TH	is PAGE	E SHOULD BE MEASURED VALUE	S AFTER MOMINAL WA	BHUD TIME		
VOLTS, WATTS				INMEASURED VALUES SHOULD S				
IND-PMR-8800/95 (REV. 3-61)		**************************************			1. SECURITY CLASS	FICATION	9. REVISION NO.	
PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.	KD						1	

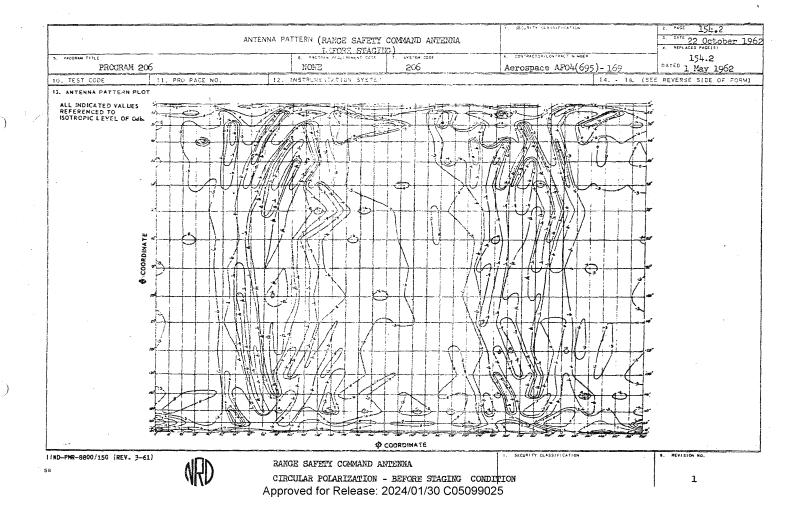


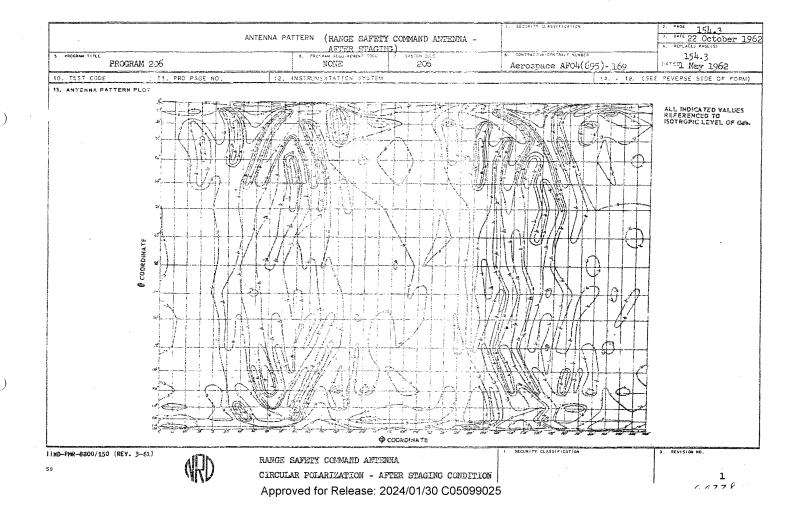
				1 SECURITY STANS	7 (AFO)N	2. PAGE 153.6
•	TRANSPONDERS AND BEA	CONS SATELLI	TE VEHICLE			3 24 22 October 1962
5 PRICNAM TITLE		OGRAM REGGIREMENT CODE	7. SYSTEM CODE	a. CONTRACTOR-CONT	Par Number	Original
PROGRAM 206		JOHAN SECONEMENT CODE	206		F04(695)-169	DATED
10. GENERAL INFORMATION	TRANSMITTER CHARACT		12. RECEIVER CHARACTERIST	ıcs	13. ANTENNA CHAR	ACTERISTICS
A. TEST CODE: C,G,E,I	A. FREQUENCY RANGE: 235.0	MC	A. FREQUENCY RANGE:	MC	A. LOCATION: STA.	°AZ
B. PURPOSE: *		DTUNED	B. TUNABLE FIXED	TUNED	STA.	, *AZ
RANGE SAFETY-IMPACT PREDICTION	C. BANDWIDTH AT 308:	.06 Mc,	C. INTERMEDIATE FREQUENCY:		STA.	°AZ
MIDCOURSE TRAJECTORY DATA	AND AT 60DB: Appro	x. 10 Mc	D. LOCAL OSCILLATOR FREQUENCY	ABOVE.	STA.	, °AZ
TERMINAL TRAJECTORY DATA	D. EMISSION: AM, FM, X	PULSE,	BELOW INTERROGATION FREE	UENCY	WITH REFERENCE TO TR	UE NORTH AFTER THE
TELEMETRY	COMPOSITE NONSTANDARD	1	E. METHOD OF FREQUENCY CONTRO	L:	VEHICLE IS ERECTED ON	THE LAUNCH PAD.
7 · ·	E. FREQUENCY STABILITY: 1 .	01% 300-62			B. TYPE: 1/4 Wave Stul	<b>3</b>
	F. AVERAGE POWER: .21	WATTS	F. FREQUENCY STABILITY: ±	MC	C. MODEL: 765D237-G2	
C. LOCATION: STAGE	G. PEAK PULSE POWER: 7	WATTS	G. SENSITIVITY;		O. MANUFACTURER: GE	
D. TYPE: TRANSPONDER X BEACON	H. MAXIMUM PRF: 1500	PPS	MAXIMUM: DBM AT	мс	E. FREQUENCY RANGE: 225	5-260 Mc
E. MODEL: 764D637-G6	I. PULSE WIDTHS: 33 US,	us, us	TA MED :MUMINIM	мс	F. TUNABLE	X FIXED TUNED
F. MANUFACTURER: GE	AT 3DB POINTS		NOMINAL: CSM AT	мс	G. PREDOMINANT POLARIZA	TION; (CHECK ONLY ONE)
G. INTERROGATION PULSE CODE	J. FIXED DELAY SETTINGS: NA	us, us	H. SELECTIVITY: (OVERALL)		TO VERTICAL	
CAPABILITIES:	K. MAXIMUM DELAY VARIATION WIT	SIGNAL NA	309	MC	HORIZONTAL	
SINGLE PULSE DOUBLE PULSES	STRENGTH FROM TORM TO WITH	S DBM OF MAXE	2003	40	CIRCULAR: SENSE:	LH RH
DOUBLE PULSE SPACING	MUM SENSITIVITY OF RECEIVER:	us	600 B	MC	TOTHER	•
± us	L. RECOVERY TIME: NA	us	I. TYPE AGC:		H. MAXIMUM GAIN IN DB WITH	RESPECT TO
± N/A us	M. MINIMUM FREQUENCY SEPARATION	N REQUIRED .	J. AGC TIME CONST:	. us	ISOTROPIC: +2	08
± US	BETWEEN TRANSMITTER AND RE	CEIVER NA MC	K. RECOVERY TIME TO 308 POINT:	us	I. MAXIMUM NULL IN DB WIT	H RESPECT TO
TRIPLE PULSES	N. NOMINAL WARM-UP TIME: 1.2	MINUTES	L. NOMINAL WARM-UP TIME:	MINUTES	ISOTROPIC: -3	DB
PULSE SPACINGS	O. IS THERE AVAILABLE A SPECTR	JM ANALYSIS	M. IS THERE AVAILABLE A SPECTRUI	ANALYSIS	(WITHIN 60° FOR AZUSA, 1	20 FOR RADAR, OF
FIRST & SECOND PULSES	REPORT ON THIS TRANSMITTER!	X YES NO	REPORT ON THIS RECEIVER COVE	RING THE	LONGITUDINAL AXIS OF M	AIN LOBE.
. ± us	(IF YES, PROVIDE ONE COPY)		FREQUENCY RANGE 100 MC TO 10,0	000 MC?	J. MAIN LOBE BEAMWIDTH IN	DEGREES AT 3DB POINTS:
. N/A us	P. ATTACH A PLOT OF ANTENNA I	PUT POWER	TYES THO UF YES, PROVI	DE ONE COPYI .	ELEVATION: 500	, AZIMUTH
z US	VS TRANSMITTER FREQUENCY.	N/A			K. INDICATE AVAILABILITY	DATE OF ANTENNA PATTERN
SECOND & THIRD PULSES		-7			MEASUREMENTS	•
± us	į		•		L. IS THERE AVAILABLE A S	PECTRUM ANALYSIS REPORT
ı N/A us	*Available on Need-to-k	now basis.	•		ON THIS ANTENNA?	YES X NO
ż US					(IF YES, PROVIDE ONE CO	PY)
H, COMMAND CONTROL CODE		1			M. USE APPROPRIATE SPAR	F FORMS FOR ANTENNA 3
CAPABILITIES:			•		PATTERN AND ANTENNA	
NUMBER OF COMMAND CHANNELS	ţ	1				STOTEM SCHEMATIC.
AVAILABLE:		i				
TYPE OF PULSE MODULATION:						
I. POWER REQUIREMENTS:	NOTE: QUANTITATIVE DATA FURN	SHED ON THIS PAGE	SHOULO BE MEASURED VALUES AF	FR NOMINAL WA	PATIO TIME	
VOLTS, WATTS			INMEASURED VALUES SHOULD BE INC			•
IIND-PMR-8800/95 (REV. 3-61)				1. SECURITY CLASSI	THE PROPERTY OF THE PROPERTY O	9. REVISION NO.
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	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		THE HELLANTY TLASS FIR	** 154
COMMANG	CONTROL/DESTRUCT SYSTEM		Various a scale	1. 3A*E 22 October 196
5 PROGRAM TITLE	8 PROGRAM RELL TEMENT COOK	t sharewidge	8. CONTRACTOR (CONTRAC	154
PROGRAM 206	NONE	206	Aerospace Al	F04(695)-169 · 14720 1 May 1962
10.	11).	1 12.	·	13.
GENERAL INFORMATION	RECEIVER CHARACTERISTICS	ANTENNA CHARACTE	RISTICS	DESTRUCT CONTROL SYSTEM DESCRIPTION
A. TEST CODE: A,B,C,F,G	A. LOCATION: Atlas D First STAGE.	A. LOCATION: STA. 1023	. 225° AZ.	
B. TRANSMISSION OF COMMAND FUNCTIONS:	B. TYPE: FM	STA. 892	450 AZ.	See PRD 159
TYPE: X ON-OFF	C. MODEL: P/N AD-319600	STA.	, ., AZ,	
PROPORTIONAL	D. MANUFACTURER: AVCO, Crosley Division		. AZ,	
C. NO. OF ON-OFF CHANNELS TO BE	E. NUMBER INSTALLED: 2	WITH REFERENCE TO TRUE NO		
TRANSMITTED: 3	F. FREQUENCY RANGE: 405-420 MC	VEHICLE IS ERECTED ON THE		
	G.T TUNABLE X FIXED TUNED	B. TYPE: Cavity	CAUNCH PAU.	
D. BANDWIDTH OF PROPORTIONAL	H. INTERMEDIATE FREQUENCY:	C. MODEL: P/N 27-12507-1		
CHANNELS N/A KCINCLUSIVE.				
•		E. FREQUENCY RANGE: 405-42		
E. REAL-TIME MON)TOR)NG OF TRANSMIT-	I. LOCAL OSCILLATOR FREQUENCY ABOVE,			
TED COMMAND FUNCTIONS REQUIRED:	X BELOW COMMAND TRANSMITTER FREQUENCY.		TIXED TUNED	
X YES NO	J. METHOD OF FREQUENCY CONTROL:	G. PREDOMINANT POLARIZATION	(CHECK ONLY ONE)	
X TES NO	1ST OSC: Crystal , 2ND OSC: Crystal	X VERTICAL		
	K. FREQUENCY STABILITY: ± 0.020 MC	HORIZONTAL		
F. A FLIGHT-CONTROL CONSOLE X WILL	L. SENSITIVITY:	CIRCULAR; SENSE: - LH	☐ RH	•
WILL NOT BE USED.	MAXIMUM: DBM AT MC	OTHER		
	MINIMUM: DBM AT MC	H. MAXIMUM GAIN IN DB WITH RES	PECT TO	
G. PORTION, OR DURATION, OF FLIGHT	NOMINAL: -93 DBM AT Carrier MC	ISOTROPIC: 3	08	
THROUGHOUT WHICH RADIO COMMAND	M. SELECTIVITY; (OVERALL) freq.	I. MAXIMUM NULL IN DB WITH RES	SPECT TO	
IS REQUIRED:	эов 0.20 мс	ISOTROPIC: -30	DB	
Atlas powered flight phase	20DB 0.444 MC	J. LOSS IN TRANSMISSION LINES:		14.
	60 DS 1.10 MC	2 DB AT	Carrier MC	DISPERSION PATTERN AFTER INFLIGHT DESTRUCTION
H. IN-FLIGHT TELEMETERED DATA:	N. BANOWIDTH (FOR A GIVEN OFTIMUM SIGNAL) AT;	K. ANTENNA DIPLEXER;	freq.	Will be provided in range safety
CHANNEL #	6D8 DOWN 300 KC	0.4 DB LOSS AT	carrier MC	report.
R-F LINK * None	4008 DOWN 700 KC	L REQUIRED SIGNAL STRENGTH -	CALCULATED	DIRECTION OF FLIGHT A
WILL BE USED TO TRANSMIT COMMAND	80DB DOWN 1600 KC	950 uv/mi	ETER, ASSUMING	DIRECTION OF PETONIC ZIA
CONTROL SIGNAL INTENSITY FROM	O. DEVIATION REQUIRED: ± 60 KC	LEFT-HAND-SENSED, CIRCULAR	RLY POLARIZED	
MISSILEBORNE RECEIVER.	P. CAPTURE RATIO: 0.6	TRANSMITTING ANTENNA.		
I. DOES COMMAND RECEIVER HAVE	O. SPURIOUS RESPONSE REJECTION: 60 DB	M. ATTACH ANTENNA PATTERN M	EASUREMENTS AND	
A REMOTE TURN-OFF CAPABILITY?	R. ATTACH A PLOT OF SIGNAL PLUS NOISE TO NOISE	A SCHEMATIC OF ANTENNA SYS		
YES X NO	RATIO IN DE VERSUS INPUT SIGNAL IN UV OVER A	See PRD 154.1. 154.2.		
	RANGE OF 1-100 UV.	N. IS THERE AVAILABLE A SPECT		`
	S. IS THERE AVAILABLE A SPECTRUM ANALYSIS	REPORT ON THIS ANTENNA?		POSITION AT
	REPORT ON THIS RECEIVER? YES X NO	(IF YES, PROVIDE ONE COPY)		DESTRUCT
	(IF YES, PROVIDE ONE COPY)	23, -404102 342 6071)		
N. Francisco	(1F 1E3, FROVIDE ONE COFT)			
ND-PMR-8800/96 (REV. 3-61)	<b>1</b>		, for SECURITY TOPA	9. REVISION NO.
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7/1//	'l <i>)</i>			60778
7117	Approved for Release:	2024/01/30 @050000	5	1 60118







**************************************	ANTENNA PA	TTERN		1. SECURITY GLASSIFICATION	CIP IN CHARGE THE	2. PAGE 3 SATE 22	154.4 2 October 196
5. PHOGRAM TITLE		S. PROGRAM REQUIREMENT CODE	7. SYSYEW CODE	E. CONTRACTOR/CONTRACT NO			154.4
PR	ogram 206	NONE	206	Aerospace AF04(69	5 <b>)-</b> 169	CATED 1	May 1962
10. TEST CODE	TO COMPANY TO THE PROPERTY OF	INSTRUMENTATION SYSTEM	entered the contract of the co	FOR STATE OF THE S	14. • 18. (SE	E REVERSE	SIDE OF FORM)
13. ANTENNA PAT	TERM PLOT						
14.	General Information						
	A. Antenna Type: Cavity						
	B. Frequency Range of Operations: Transmitter: 406 Mc to 54 Receiver: 405 Mc to 42						
	C. Coverage required:						
	T + 0 sec to T + SECO sec						
	D. Frequency Used for Pattern				•		
	Measurements: 4200 Mc						
	E. Model Scale: 1/10						
15.	Transmitter Information: Total Powe at Transmitter Antenna System:  F = 406-549 Mc; Unknown dbm	r Level					
16.	Receiver Information: Minimum Power Required at Receiver Antenna System:	Level					
	F = 405-420 Mc; -87 dbm						
17.	Polarization Information: Polarization Vector(s):						
	Linear: $\theta = 90^{\circ}$ ; $\phi = 0^{\circ}$ , $180^{\circ}$						
Note	This page is a continuation of page	es 154.2 and 154.3					
				1. SECURITY CLASSIFICATION		8. FEV: 5:04	
D-PMR-6800/150	(REV. 3-61)			SECONO CERTIFICATION		J. 72112101	1

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				ORDNANG	E FEMS (ATI	AS)					3. 0472 22 October 196
5. PROC	PAN FIFLE				6 PROGRAM REGULAR	WENT 2008 7. 5	9764 JOSE 206			erospace AFO4(695)-169	155.0
0.	17.	III.	COMMERCIAL		in the second	JILITAR	Tilde are water	mentioner in the	J''.	15.	To,
NO.	TEST CODE	MFGR	NOMENGLATURE	STOCK NO.	NGAENCI ATURE	STOCK NO.	VIIL STD	MISSILE SYSTEM	чо.	PURPOSE	Lecation
1	A	Rocketdyne	Vernier Igniter	650291					2	Ignite LO2/RP-1 mixture in vernier engine thrust chamber	One on each vernier thrust chamber
2	A	Rocketdyne	Gas Generato Igniter (Booster	r 650717			1		2	Ignite LO2/RP-1 mixture in booster gas generator	Booster engine gas generator
3	A	Rocketdyne	Gas Generato Igniter (Sustainer)	r 650717					2	Ignite LO2/RP-1 mixture in sustainer gas generator	Sustainer engine gas generator
14	A	Rocketdyne	Thrust Chamber Igniter (Booster)	650580					2	Ignite LO2/RP-1 mixture in booster thrust chamber	One on each booster thrust chamber
5	A	Rocketdyne	Thrust Chamber Igniter (Sustainer)	650580					1	Ignite LO2/RP-1 mixture in sustainer thrust chamber	Sustainer thrust chamber
6	A	Beckman/ Whitley	Destructor	GD/A 27- 04306-5					1	Rupture missile tank for destruction of missile	Long equipment pod, Sta. 960
7	A	Conax Corp.	Explosive Valve	GD/A 27- 04340-3						Release helium from booster supply to pneu- matically actuated stag- ing release fittings	B-2 engine nacelle, Sta. 1165
8	Α.	Eagle Picher	Main Missile battery	CD/A 27- 06359-3 Eagle Pit- cher 4000A					1	Activate main missile battery	Long equipment pod, Sta. 1095
					1 P. P. P. P. P. P. P. P. P. P. P. P. P.						
IND PM	- 8800/97 (	REV. 8-61)	1	er Amazony Christian (2007) a thair	L	AMERICAN CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO	<u></u>	THE PERSON NAMED OF THE PERSON	1	SECURITY CLASSIFICATION	9. REVISION NO.
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West Control				ORONANI	TE LITENS CAUT	. 7 -5 /	PA 74 APEC	8/2003-2004-01 TO STORE	2. 41000,2000	The Control of the Co	155.0.1 2 24 22 October 194
5. PROG	PROGR-	 um 206			8. FREE 8. 4. 100		75 (5)				155.0.1
· (	11.	Til	COUNTRACTAL		tanan kangan ang 1972 di kanangan ang mangan mengangan pengangan ang mananggan penganggan penganggan pengangga Penganggan penganggan penganggan penganggan penganggan penganggan penganggan penganggan penganggan penganggan						
I TEM NO.	7857 C005	88°G2	NOMENCLATURE	STOCK NO.	NO SHOLATUR	arott se.	vii. 870	W1511E7 5757EW	No.	PUNPOSE	LOCATION
9	A	Yardney	Telemetry Battery Squi	19XPA2 b			1000		1	Activate telemetry battery	Long equipment pod
10	A <sub>e</sub>	Conax	Valve Assembly	GD/A 88- 20916-001 Conax Nov- 15-4A			Total and the second		2	Change LO2 tank pressure	Quadrant 1, Sta. 1206
		Effectivit Booster Sustain Missiles w	iles will have y: thrust chambe er and vernier ith booster hy ith sustainer	rs 0006-3 - thrust cham pergolic ign	22, and on bers 0006-24 ition will n	, -5, -28, an	d on		l and	5	
11	A	Bendix	Telemetry Transmitter	AN/DKT-17					1	Transmit signals re- presenting physical variables from missile to ground	Transmitter in long po Sta. 1041. One antenna in long pod, Sta. 892. One antenna in short pod, Sta. 1023.
12	A	Walderman & Communication of the Communication of t	Destruct Transmitter						l	Furnish signal to operate destruct system for destroying missile	Range safety operation center
13	A	General Electric	Mark II Rate Beacon		10 10 10 10 10 10 10 10 10 10 10 10 10 1	regent Company to the control of the			1	Provide rate information for missile guidance	Transmitter in short pod; 2 antennas in short pod
14	A	General Electric	Mark II Pulse Beacon				to the fact of the control of the co	o con control of the	1	Provide position infor- mation for missile guidance	Transmitter in short pod; 2 antennas, 1 in each pod
NO-PMR	-8802/97 (F	REV. 8-61)	(RD		Chapters, and association of the Co. After surround and a	lease: 2024/				SECURITY CLASSIFICATION	9. REVISION NO.

		Ţ.		ORDNANI	CE ITEMS (ATLA	s)			T	SECURITY CLASSIFICATION	2. PAGE 155.0.2 1. DATE 22 October 1962 4. REPLYCES PAGE(S)
S. PRO	CRAM TITLE	PROGRAM 206			8. PROGRAM SPUCISEN	- /	7 5:31EN 000		9	. CONTRACTOR/CONTRACT NUMBER ABOUT AFOLI (695)-169	155.0.2 DATED 1 May 1962
10.	11.	12.	COMMERCIAL	er er frankring pag jand er en samt gegildelik ber	MILITARY					are provided the same section and the same of the same	[7]
ITEM NO.	TEST CODE	MFGR	NOMENULATURE	STOCK NO.	NOMENCLATURE	5 (00x 5		MISSILE SYSTEM	٧٥,	PURPOSE	LOCATION
15	A	General Electric	Ground Guid ance Station; Mark II Rate Subsystem						1	Transmit signals to and receive signals from A/B rate beacon	VAFB
16	A	General Flectric	Ground Guid- ance Station; Mark II Pos- ition Sub- system						1	Transmit steering and discrete commands to A/B pulse beacon; receive signals from pulse beacon	VAFB
erkeijerijijonigari rijektonijamun ripijamika meterijemena aktivi	-								Office of the Of		• •
							The purpose of the second seco		and a company of the way garage, A fit defends the Law of the company of the law of the		
				The control of the co					OF PROCESSES AND AND AND AND AND AND AND AND AND AND		
11 <b>ND- PM</b> 63	-8800/97 (F	REV. 8-6()	(RD		eranderalli areş yazılın şiriyye e sandığıy		<del></del>		1.	SECURITY CLASSIFICATION	9. REVISION NO.

				0000444	C ITEMS /A	- D)			1	SCO. BUTY OLASSIFICATION	2. MASE 155 0 3
				UNDNANG	E ITEMS (Agen	,					155.0.3
PROG	RAM TITLE				6. PROGRAM REGULPS	WENT COUR 2	. 07.57EM 2005		ā	CONTRACTOR TRACT NOWER	i
	PROG	RAM 206			NONE		206		العيب	Aerosnace AFO4(695)-169	DATED 1 May 1962
TEM	TEST	12.	COMMERCIAL	7	Т	AIFI		,	١,,,,		•••
NO.	CODE	MFGR	NOMENCLATURE	STOCK NO.	NOMENCLATURE	STOCK NO.	MIL STD	MESSILE SYSTEM	NO.	PURPOSE	LOCATION
17	A	U.S. Flare	Igniter, Retrorocket						2	Ignite retrorockets	
18	A	Atlantic Research	Retrorocket	*1062410-1					5	Booster retrograde	
19	A	Bernite	Igniter, Ullage Rocket	-			en roughand, the restriction of		4	Ignite ullage rockets	
20	A,	Aerojet General	Ullage Rocket	1062655-3					4	Ullage orientation	
21	A	B.A.C.	Engine Starter, Grain Ignit	8081-474- 540-1 er			,	·	2	Engine start	
22	A	B.A.C.	Starter, Grain	8081-474- 528-1					2	Engine start	
23	A	Conex Corp	Explosive Valve	8096 <b>-</b> 47 <b>2</b> - 005-5					1	Fast shutdown	
24	A	LEC/SCTB	S&A Initi- ator	1312289-1					2	Vehicle destruct	
25	A	Ordco/SCTB	Shaped Charge	1062569-3					1	Vehicle destruct	
26	A	McCormick- Selph	Squib,Safe Abort Valve	1062152-5 Ty M79 Mod 8					2	Open safe / abort valve	
27	A	McCormick- Selph	Squib, Pin Fusher, Hor- izon Sensor	1307805 Ty M79 Mod 8	many in 49 strains was pos				. 8	Release, horizon sensor fairing	
In_ PNP_	8800/97 /	REV. 8-61)				THE PERSON NAMED IN COLUMN			L.	SECURITY CLASSIFICATION	9. REVISION NO.
~ - 1 mg/~	uccessor (	ncr. 0-01)	(IHD								1

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5. PROD	RAM TITLE	PROGRAM 20	6		6. PROLEAM CEULIRE NOME		7. 545	. 20		1.	CENTRACTOR/CONTRACT NUMBER Aerospace AF04(695)-169	DATED 1 May 1962	
10.	11.	12.	COMMERCIAL		13. MILITARY					34.		10-	
ITEM NO.	CODE	A∓GR .	NOMENCLATURE	STOCK NO.	NOMENCLATURE	STOCK	10.	MIL	MISSILE SYSIEM	NO.	PURPOSE	LOCATION	
28	A	McCormick- Selph	Squib, hor- izon sensor actuator	1311875 Ty M79 Mod 8						2	Actuate horizon sensor		
<b>2</b> 9	A	Du Pont	Detonator primer cord				The state of the s			2	Initiate separation primer cord		
30	A	Du Pont	MDF, 10 gr. primer cord	1341998-1	-		as to proposed to make	Andreas Wilders & Lon		1	Separation of Agena D and booster adapter		
31	A	Universal Match Corp	Piston, explosive	GE Dwg. No.			-			2	Releases hatch door	CCV	
32		Thickol	Initiator, Safe/Arm	GE Dwg. No. 825D615	- ,		n actual Pifes rus to an			4	Initiator for shaped charge	OCA .	
33		Thiokol	Transfer lead assem- bly.	GE Dwg. No. 131B4126	The state of the s		restantements de la constitución			2	Transfer for shaped charge	OCV	
34 34		Thiokol Thiokol	Shaped charge assembly	GE Dvg. No. 884D1244			majoring data di Emmando addigina i	d since my case, and it is dispersional a development.		1	SV/Agena separation	ocv	
35		Conax	Initiator, explosive (valve)	GE Dwg. No. 13184102			'e water held in with sometages	and the second s		2	Pressurize OCV fuel tanks	ocv	
36		Conax	Initiator, explosive (valve)	GE Dwg. No. 111C3795	-		acru bas dia 12 <sup>th</sup> Housey van 1745 des 7745			2	Pressurize stab subsystem	OCV	
	oggala" /	The second secon				North Delication Model and Cal			linearing of the party bearing (act)	L	SECURITY CLASSIFICATION	9, REVISION NO.	
1   KD - PM	- 8800/97 (	1EV. 8-51}	(R)									1	
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5. PROG	RAM TITLE			ORDNANO	G. PHOGRAM PESUSPE	aFhT Cook	*. Jr9	TEM CLUL			CONTRACTOR/CONTRACT NUMBER	0riginal
		PROG!	WM 206		KONE		i in the second	20	j montorem a li	A.	erospace AFO4(695)-169	DATED
ŭ	11	12	COMMERCIAL		(3.	Mil	LITARY			114.	173.	16.
NO.	TEST COSE	MFGR	NO-ENCLATURE	STECK NO.	NOTEACLE SE	STOCK :	MC.	71V 11V	MICSILS SYSTEM	NO.	FURPOSE	LOCATION
37		GE	TLM vhf transmitter & power amplifier	GE Dwg. No. 1130971001 11309595G1			and the second second			2	Transmit telemetry data	Adapter
38		GE	UHF rate beacon	GE Dwg. No. 893D238G1			Total Control of the			1	Provide rate information	Adapter
35		ACF	S-band beacon	GE Dwg. No. 1130951771				Boling Complete to the second		1	Tracking & command with verlort radars	Adapter
Control of the Contro								en en before se ere an an an an				
a ar ye is the property of the second								day of agreement				
and the descriptions which							No. on the boston some			The state of the s		
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					to the chiral many many conservation of the chiral many many conservation of the chiral many c		e shari di ilizani natana a sa	see for introducer designation		Fra ) Snippjuna u pini ap		
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10 - PHR-	-8800/97 (R	EV. 8-51)	NRD		oved for Rele				_	j	SECURITY CLASSIFICATION	9. REVISION NO.

Manue y selatan	end manufacturent state of			GRDNA	NCE ITEMS (	TLAS)			1. SECURITY CLAS			2. PAGE 155. 3. DATE 22 OC. 4. REPLACES FAGE 155	1.0 tober 190
		OGRAM 206			NG		7 9787544 000E 206		Aerospace	1794C1 NUMBER AFO4(695)-1		DATED 1 Mag	y 1962
I TEM NO.	17. STORAGE	TEMPERATURE :	TIMER	IMPACT	PROXIMITY	FIRINJ CHARAC	TERISTICS BAROMETER	ACCELERATION	MECH SEPARATION	MIN FIRE CURRENT	MAX-SAFE	HARACTERISTI	MAX TEST CURRENT
1	-50°F	+130°F					1			3.1	0.6	0.32 to	0.01
2	-50°F	+130°F								2.0	0.4	0.45 to 0.85	0.01
3	-50°F	+130°F								2.0	0.4	0.45 to 0.85	0.01
4	-50°F	+130°F	3				:			5-0	0.8	0.75 to 1.3	0.01
5	-50°F	+130°F								5.0	0.6	0.75 to	0.01
6	-65 <sup>0</sup> F	+325 <sup>0</sup> F					1		-	1.0	0.15	8.2 to 9.3 @ 70°F	0.01
7	-65°F	+125°F					ğ			1.0	0.20 up to 5 sec	0.8+0.4	0.01
8	-65°F	+125°F	THE STATE OF THE S	at it is a contract of the second of the sec						25 to 30 Volts	0.32	23 ± 3	0.01
9							1 pp. 1 pp.		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Not avails	ble. This	battery i	s SS syst
10	-65°F	+150°F	annual professional	mention of transported					4	2.0	0.15	0.9	0.01
				Marin A Marin Mari	, and a second s		to be a set of the set of						
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					7. T. T. T. T. T. T. T. T. T. T. T. T. T.								
NO-PM!	R-8800/97-A	(REV. 12-61)					ACTION CONTRACTOR AND AND AND AND AND AND AND AND AND AND	namentalista kanpantan ya ya ya ya ya ya ya ya ya ya ya ya ya	1. SECURITY CLASS	IFICATION		9. REVISION NO.	миница шта аради и и мара
I NO - PM!	R-8800/97-A	(REV. 12-61)	<b>NRD</b>		1				1. SECURITY CLASS	IFICATION			REVISION NO.

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L				()RDNA			T		1	FRACT SUNGER		4. SEPLACES PAGES	155.1.2
5. P20	SHAM TITLE	PROGRA				r rescurrent core	205	and a second second second	Aerosyace A	JFC4 (695) <b>-</b> 16	1	orres 1 May	
TO.		TEMPERATURE				FINES CARA	PERISTICS.		1 25425400	17.25°C	SLEGIELCAL C	HAPACTERISTIC	S TEST CURRENT
NO.	MINIMA	MAXIME:	TEER	PHPACT.	PROVINCE TO	PRESC FG	7441,000	Made and A	0584885105	\$1,796\F	NO FIRE CLARES		CLARENT
11			and the state of t				· O O O O O O O O O O O O O O O O O O O			3.0+0.15	0.2, 30m	0.70 to 1.30	
12		1				3000 psi				3.0	0.20	1.0±0.30	,
13		and the same of th							-	1.50	0.25	2.0+0.25	
14	40° F	120° F	An and a second	-		2500 psi		ll.6g aft l.5g fwd		1.5	0.25	0.70 to 1.30	
15		130° F					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1.6	0.4	1.0±0.15	
16		130° F											·
17		130° F								2.5	0.6, lm	0.1 to 0	.2 •
18	50° F	90° F						12g, 10m		2.5	0.50	1.0+0.20	
19	50° F	90° F						12g, lm		1.4	less than	1.0+0.1	
20	50° F	90° F				3700+700 psi	P. C. C. C. C. C. C. C. C. C. C. C. C. C.	12g, 5m		2.0	0.50, 5m	.65±0.20	
21	50° F	90° F	***************************************			3700+700 psi		12g, 5m		5.0	0.50, 5m	0.65+0.2	
22	50° F	90° F	-	S OF STATE O		3700+700 psi	-	12g, 5m		2.0	0.50, 5m	0.65+0.2	
23				ty in mainty with CAN				15g, 10m		2.0	0.5, 5m	1.0+0.1	
24						* ***		15g, 10m		1.0	0.20	1.05+0.3	5
25	-ccii/57 (ÆV.	<u> </u>	45-1		analistic remaining to the contract of	A PROGRAMMENT LINES SEVERA INC.	AND THE PROPERTY OF THE PARTY O	entrantinement, in 1945 if the legisle	1. SECURITY CLASS	I FI CATION		9. REVISION NO.	
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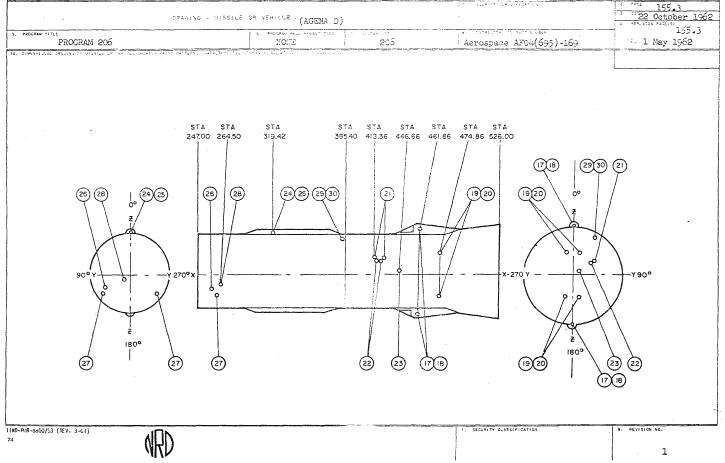
4000	RAM TITLE			ORDNANC		SATELLITE VE	7. SYSTEM CODE		1. SECURITY CLAS	NTPACT NUMBER		2. PAGE 155.1 3. DATE 22 Oct 4. REPLACES PAGELS Orig	ober 19
		PROGRAM				NONE	200	Ś.	Aerospace	AF04(695)-1		DATED HARACTERISTIC	
f	17.STORAGE	TEMPERATURE	18.			FIRING CHARAC	I	·	1.EQI	VIN FIRE CURRENT	MAX-SAFE NO-FIRE CURREN		MAX TEST CURRENT
TEM NO.	MINIMUM	MAXIMUM .	TIMER	IMPACT	PROX IMITY	PRESSURE	BAROMETER	ACCELERATION	SEPARATION	CURRENT	NO-FIRE CURREN	IT RESISTANCE	CURRENT
26													
27		1		į									
28													
29													
30													
- 1	0									5 amp	1 amp/5m	0.4-0.55	10ma
31	o <sup>o</sup> f	160° F								-	1 amp/5m	0.12-0.1	3 10ma
32	-35 <sup>o</sup> f	160° F								3.5 amp			
33	-65 <sup>0</sup> f	160° F								NA.	NA.	NA.	NΑ
34	-65 <sup>0</sup> f	160° F								.NA	NA.	NA	NA
-		160° F				1				4 amp	1 amp/5m	0.05-0.1	2 NA
35	-35 <sup>o</sup> f	160 F									1 amp/5m	0.03-0.0	9 NA
36										5 amp	T amb/>m	0.03-0.0	y MA
37													
38					*					ĺ			
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, PROS	RAM TITLE				S. PROGRAM REQUIR		STEM CODE		1	TRACTOR/CONTRACT NU		1	May 1962
continue my	PROGRAM	BERNOOM TO THE STATE OF THE STA	THE REPORT OF THE PROPERTY OF THE		NONE	management of controlled live Per Month	206 T:::	e a		ospace AFO4(			AND AND TO PROPERTY HOUSE AND ADDRESS AND
	26.	ORA41NGS		21.	100		122.	CLASSII		ON .	7	DIO FREQUENCY	
TEN NG.	SHIPPING CONTAINER	PACKING	STORAGE	MARK INGS	PARA	CLASSIFICATION	SERVICE	CONPAT IS GPOL	BILITY Up	CDAST GUARD	FREGUENCY RANGE	AVERAGE POWER	ANTENNA GAIN
L	*	*Ref. AE61-1 Pyrotechnic Venicles",	103"Pyroph Devices U dated 1 Ja	qric and sed on GD/A nuary 1962		C Explosive				-			
2 .	*			-		C Explosive	-						
3	*			-	T TOTAL STATE OF THE STATE OF T	C Explosive	And the statement of th					-	
۱ ا	*					C Explosive	Grand Control of Contr	Tree and the second			***	ADDRESS OF THE PROPERTY OF THE	manus a september 1 miles
	*					C Explosive	-	Marrie de Valoritanio de Marrie de M				t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-	
	*	-	·			A Explosive							
	*					C Explosive							
	*					C Explosive					The state of the s		
,													
	*					C Explosive							
								Total American			229.9 Mc	25 Watt	Minimum 10 from iso-
	*											-	tropic lev
								The state of the s			-	-	
													- Company Comp
-PMF	t-8800/97- <b>8</b> (RE	EV. 12-81)	<b>NFD</b>						r. SEC	CURITY CLASSIFICATION		9. REVISION	ъо. 1

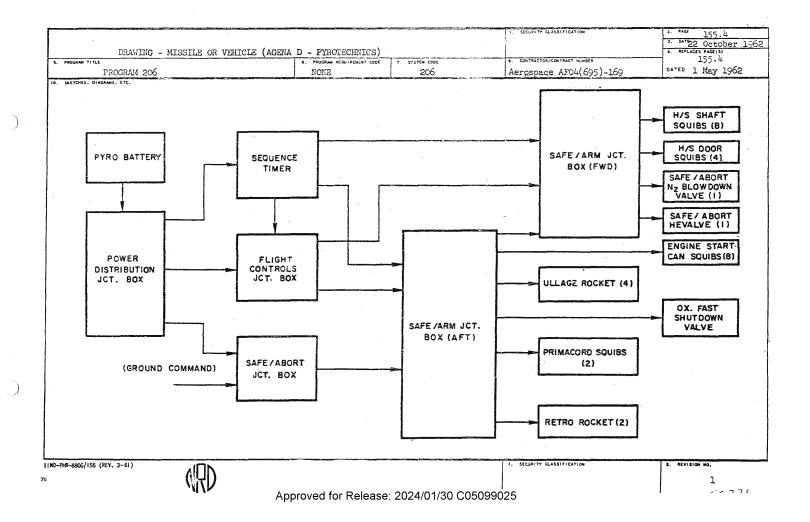
			ACCESSORY	ORDNANCE	E ITEMS (ATLAS)	Maring on the Administra			1. SECUI	RITY CLASSIFICATIO	N	J. DATE 22	55.2.1 October 1962
	PROGRAM 2	206			6. PROGRAM REQUIREMEN	T CODE 7. SY	376M C006 206			BACTOR/CONTRACT NU Space AF04(		4. PEPLACES 152 DATED	.2.1
10.	26.	DRAWINGS		21.	ICC		22.	CLASSI	CATIO	N		ADIO FREQUENCY S	OLIOCES :
NO.	SHIPPING CONTAINER	PACKING	STOR 4GE	MARKINGS	PARA	CLASSIFICATION	SERVICE	COMPATIO GPOL	BILITY JP	COAST GUARD	FREQUENCY RANGE	AVERAGE POWER	ANTENNA GAIN
12		-						The state of the s			416 Me	500 w & 10 kw ampli fier	10 db above half wave dipole
13		-		And the second s							2300 Me	Mod II:5 w Mark II:5.3	10 db nominal
14								-			8850 Mc	Mod II: 2.5 W Mark II: 0.3 W	13 db nominal
15									-		1150 Mc	500-700 w	24.0 db nominal
16								٠.			8935 Mc	65 kw peak	40.0 db nominal
													. '
IND - PMR	1-8800/97-8 (REV	/. 12-61)	<b>NRD</b>		<u></u>	Patrician Control			). SECURI	TY CLASSIFICATION	and a figure of the control of the c	9. REVISION NO	

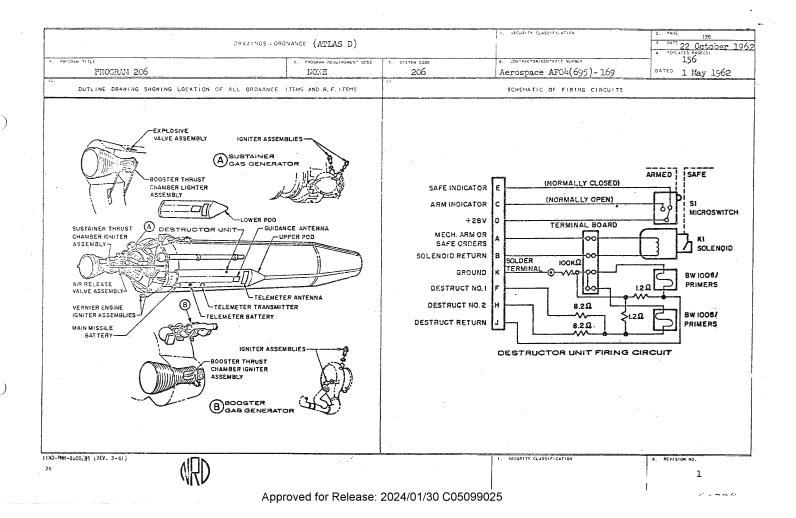
				ORDNANCE	(AGENA					SECURITY CLASSIFICATIO		3. DATE 22 4. REPLACES	155.2.2 October 1962 PACE(S) 2.2.2
5. PRO	gram title PROGRAM	206			6. PROGRAM REQUIREMENT NONE	NT CODE	7. SYSTEM CODE 206		· ·	contractor/contract no rospace AFO4			2.2.2 May 1962
16,	20.	DRAHINGS		21.	100		22.		CLASSIFICA			DIO FREQUENCY	emmana amang amang akan kanan at sa
NO.	SHIPPING COSTAINER	PACKING	STORAGE	MARK INGS	PARA	CLASSIFIC	NOV SE	RVICE	COMPATIBILITY GROUP	COAST GUARD	FREQUENCY RANGE	AVERAGE POWER	ANTENNA GAIN
17	ICC Reg. 49-CFR- 71-78	ICC Reg. 49-CFR- 71-78	AFM 32-6	ICC Reg. 49-CFR- 71-78		В	3		В				
18	"	"	11	"		В	4		F		1		
19	· "	"	"	17	}	В	4		F				
20	11	"	**	17		<b>B</b>	1 4		F				
ġ1	"	"	11	11		В	3		В				
22	**	n	"	**		В	2		J				
23	11	11	ıı.	"		C	1		E		Į		
24	"	"	"	**		C	6		В				
<b>2</b> 5	"	"	**	"		A	10		r			ĺ	1
26	"	"	17	**	1	C	1		E	1			i
27	"	"	"	17	1	C	1		E				
28	**	,,	"	17	1	C	1		E	1			
29	"	11	11	18	1	C							
30	11	89	"	11	1 1	C	1						
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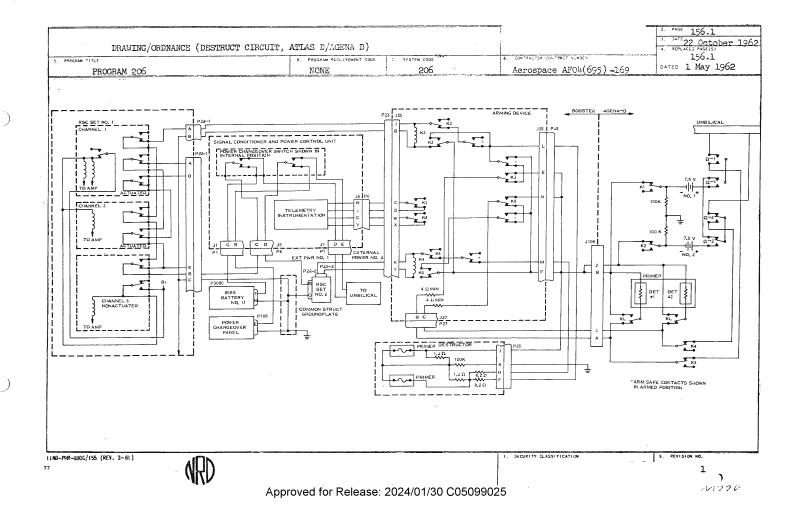
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5. PRO	CRAM TITLE				6. PROGRAM REGULARMENT	5005	7. 5YS	ITEM COCE		ł	TRACTOR/GONTRACT NUM		DATED	iginal
	PROGRAM 20				NONE		market at	206 Tiz	21.100	Aero	space AF04(	695)-169	O FREQUENCY S	01.0055
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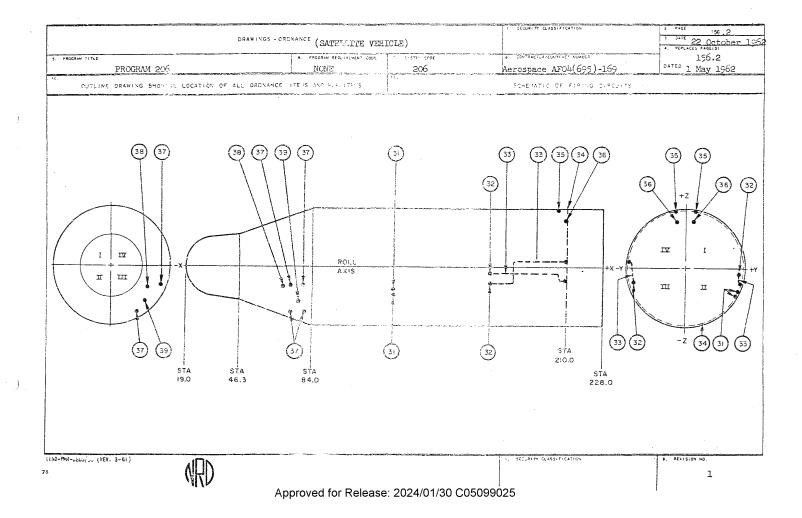


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				i. SECURITY, CLASSIFICATION	2. PAGE 159
•	SYSTEM FUNCTIONAL	DESCRIPTION (ATLAS)			1. DATE 22 October 1962
PROGRAM TITLE		6. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE	6. CONTRACTOR/CONTRACT NUMBER	4. REPLACES PAGE(S) 159
PROGRAM 206		NONE	206	Aerospace AF04(695)-169	DATED 1 May 1962
o. SUB SYSTEM/MAJOR COMPONENT	functional	CHARACTER ISTICS	13.	WEAPON SYSTEM FUNCTIONAL BLO	CK DIAGRAM
AIRFRAME SUBSYSTEM	The Atlas missile is a heligoropell rocket engine system con one sustainer, and two wassile is approximately in diameter, and consist propellant tanks, a boos booster separation syste equipment pods. There a dynamic control surfaces directional control in perfected by gimbaling the All electronic equipment lines are located extern tanks.  The two propellant tanks thin stainless steel and coque-type construction surization for structurarigidity. The tanks are heads. The forward bulk off the liquid oxygen boil mediate bulkhead separat chambers and is an ellip of 0.020 in., 3/4 hard gmounted in the tank sect insulating blanket is at surface of the bulkhead of liquid oxygen boil-of and 2) retard the tenden	ed by a liquid fuersisting of one boorermier engines. To 65 feet long and its primarily of two ter thrust structure, and two electrons, and two electrons, and two electrons, and rolling in the engine thrust characteristics, yaw, and rolling, and properly on the propelling are manufactured are of all-welded are of all-welded requiring internal lattrength and body sealed off by threshead at Station 50% in and has an accessoft valve. The inest the two propellings is stated as the two propellings are stainless steel on at Station 960, tached to the aft of the to 1) reduce the am of due to heat trans of the transfer of the to the state of	to the low the sustai cone. The fuel tank note: The aft, o the sustai cone. The fuel tank NOTE: The the first: increased support of Two equipment: The Number Two A small but just forwar vernier en X-axis. NOTE: See four (4) m moncave nount efer	with the aft periphery of the temperature.  or fuel tank bulkhead seals off the loads to the airframe through booster thrust structure adapts at Station 1133.  liquid oxygen tank differs from nine skin sections (Sta. 502.00 tin thickness in order to provide the satellite vehicle.  ent pods housing the missile eleare mounted on the Y-axis of the One pod is located between Quad or or stub, pod is located between pod which houses the missile rd of the Number One pod at Statigne thrust chambers are mounted PRD, 151.1 Note revising locaticissiles.	the fuel tank and transmith a sustainer thrust er ring is sealed to the in the "D" R and D in that to Sta.667.00) were additional strength for extronic and electrical emissile tank section. I and IV and the in Quadrants II and III. rate gyros is located tion 675. The two at Station 1130 on the
-P+R-8800/101 (REV. 3-61)	VIDV			1. SECUPITY CLASSIFICATION	9. REVISION NO.

				1. SECURITY CLASSIFICATION	2. PAGE 159 .1
·	SYSTEM FUNCTIONAL	DESCRIPTION (ATLAS)			1. DATE 22 October 1962 4. REPLACES PAGE(S) 159.1
5. PROCRAM FITLE		S. PROGRAM REQUIREMENT CODE	1. SYSTEM CODE	B. CONTRACTOR/CONTRACT NUMBER	DATED 1 May 1962
PROGRAM 20	)6 	NONE	206	Aerospace AFO4(695)-169	1.100 1702
SUB SYSTEM/MAJOR COMPONENT	1	CHARACTERISTICS	mana anto amendo de la composito de la composito de la composito de la composito de la composito de la composi	WEAPON SYSTEM FUNCTIONAL BLOCK	DIAGRAM
2. Booster Thrust Structure	The booster engine thrus equipment is attached to section by a separation and separates at staging consists of a thrust cyl fairing installation whi partment housing the proassociated equipment. A the inner aft section from the booster and sustaine:	the aft end of the mechanism which rela- via jettison tracti- inder, nacelle, and ch forms a single co- pulsion system and : radiation shield pro- om the heat generate	body eases s, and om- ts		
3. First Stage Separation System	The first stage separation in the main airframe structure stage of flight and substaging. The system comjettison fittings between structure and the tank supneumatic tubing manifold jettison fittings, a twill valve, and associated with	on system is a mecha e booster structure ure during the first equently releases it sists essentially of n the booster thrust ection adapter ring, d interconnecting al n explosive-type page	to at ten a 1 the		
	Operation of this system autopilot programmer at stage flight. After rela pressurized first stage of bine to jettison the boos	the end of the boost ease, gravitational disconnect forces co	er≕ and m-		
1NO-PHR-880G/101 (REV. 3-61)				I. SECURITY CLASSIFICATION	D. REVISION NO.
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estiming the remaining in the second of the second control of the	SYSTEM FUNCTIONAL	DESCRIPTION (ATLAS)			- HEEDRETY CLASSIFICATION	2. PAGE 159.2 3 PATE 22 October 17 4. REPLACES PAGE SS 179.2
5. PROGRAM TITLE PROGRAM 206	)	6. PROGRAM REQUIREMENT CODE NONE	1. SYSTEM GO	ar 206	A. CONTROTTO CONTRACT NIMBER APPOSITE APOLE (595)-119	DATED 1 May 1962
SUB SYSTEM/MAJOR COMPONENT	FUNCTIONAL C	CHARACTERISTICS		The part of the second	WEAPON SYSTEM FUNCTIONAL :	BLOCK DIAGRAM
PNEUMATIC SUBSYSTEM	The two prime functions are to pressurize the ve to provide pressure to a During ground operations the desired pressure fro launching and during fli surization and engine co spherical storage tanks engine section. The sto by liquid nitrogen befor density two and one-half storage of a greater wei corresponding increase it o use the helium passes Other uses of the helium vernier-engine propellan and hydraulic reservoir, separation devices, and the propellant utilizati	hicle propellant tar ctuate the engine or helium is furnished m a ground source. ght helium for tank ntrol is supplied fr located in the boost red helium is chille e flight to increase times, which allows ght of helium withou n storage volume. P through a heat exch are to pressurize t t tanks, lubricant t actuate first-stage exclude propellants	nks and ontrols. I at At pres-come er-cd its t a rior anger. he ank, from			
0-PAR-8800/IGI (REV. 3-61)	(RD	roved for Release	0004/04/	(00,005,000)	I. SECUPITY CLASSIFICATION	a. REVISION NO.

	SYSTEM FUNCTIONAL	DESCRIPTION (ATLAS)			1. SECURITY CLASSIF	I CAYLON	2. PAGE  3. DATE 22  4. REPLACES P	159 .3 October 1962
S. PROGRAM TITLE PROGRAM 2	206	6. PROGRAM REQUIREMENT CODE	7. SYSTEM	<b>206</b>	6. CONTRACTUR/CONTR.	F04(695)-169	DATED 1 M	
10. SUB SYSTEM/MAJOR COMPONENT	11.	HARACTERISTICS		1	TO ALE THE MENT OF THE PERSON OF	EM FUNCTIONAL BLOCK	ARRAMIA NACTO HERARINA	
FLIGHT CONTROL SUB- SYSTEM	The flight control subsystabilization and direct missile during the power thrust vector directional mands are generated by the launch until Atlas staging grammer and guidance substhe end of powered flight. The flight control subsysprogrammer package, a gyamplifier/filter package former package, and tending	ional control of the deportion of flight 1 control. Steering the flight programmen and by the flight system from staging t.  stem consists of a propagation of the propagation of the consists of a package, a servo, an excitation transport of the stem control of the control of	t by g com- r from t pro- until flight /	·				
-	The flight programmer per functions of implementing program, and timing the commands to the control programmer from the guida crete commands for stagin off, and vernier-engine of steering signals.	g the roll and pitch issuance of programm system. Inputs to t ance subsystem are on ng, sustainer-engine	ned the lis-					
	The gyro package consists channels for pitch, yaw, contains a gyro and a gyrate gyros are physically package which is located tivity to local bending manual contents.	and roll. Each charco signal amplifier.  Thoused in a separate to minimize its serundes.	. The late					
	The servoamplifier/filter portions, one incorporati one for each channel, and amplifiers, one for each	ing three filter net I the other ten serv	works,					
IND-FNR-8800/101 (REV. 3-61)	AITIN			~	1. SECUPITY CLASSIFI	CATION	. 9. REVISION N	).
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MA-5 r altitu high-a YLR101 direct togeth lines, combin design engine of eac  Each o burnin pellan from t stage, provid sustai	ree sub-engine assocket engine average to booster rocket ltitude sustainer "MA-13 vernier rocional, and velocifier with electrical and the necessarie to form the MA-10 of the system is	NONE  CHARACTERISTICS  Semblies composing to dual YLR89-NA-7 lowengines, an YLR105-rocket engine, and cket engines for rol ty trim. These asset harnesses, intercopy start system composition system. Such that the variod and removed independent.	NA-7 two 1, mblies nnect nents The	is available	Aerospace AFC4(695)  WEAPON SYSTEM FUNCTI  for heating missile ge mps are provided on the ry pads.	ONAL BLOCK DO	. Drives f	
FROPULSION SUBSYSTEM  The the MA-5 r altitute high-a yLR101 direct togeth lines, combin design engine of eac  Each o burnin pellan from t stage, provid sustai	ree sub-engine assocket engine are de booster rocket ltitude sustainer—NA-13 vernier rocional, and velocier with electrica and the necessare to form the MA-10f the system is can be installed	semblies composing t dual YLR89-RA-7 low- engines, an YLR105- rocket engine, and cket engines for rol ty trim. These asse l harnesses, interco y start system compo 5 propulsion system. such that the vario	NA-7 two 1, mblies nnect nents The	is available hydraulic pun	for heating missile gg	as supplies.	. Drives f	
MA-5 r altitu high-a YLR101 direct togeth lines, combin design engine of eac  Each o burnin pellan from t stage, provid sustai	ocket engine are de booster rocket ltitude sustainer rocket ltitude sustainer rocional, and velociter with electrical and the necessar, to form the MA-if of the system is can be installed	dual YLR89-RA-7 low- engines, an YLR105- rocket engine, and cket engines for rol ty trim. These asse 1 harnesses, interco y start system compo y propulsion system. such that the vario	NA-7 two 1, mblies nnect nents The	hydraulic pur	mps are provided on the			
burnin pellan from t stage, provid sustai Each t								
	g turbopump-fed li ts. The vernier ( he sustainer engine with small pressu	nes develops thrust iquid oxygen and RP- engines are fed prop ne turbopump during urized propellant ta solo operation follo	l pro- ellants main- nks					
	re by a gimbal as	aches to the missile ssembly which permit directional control	s					
variab	le thrust, the roo	stem is not designed cket engine performa ed rated thrust sett	nce is					
		xchanger in the gas m of the sustainer e	ngine					

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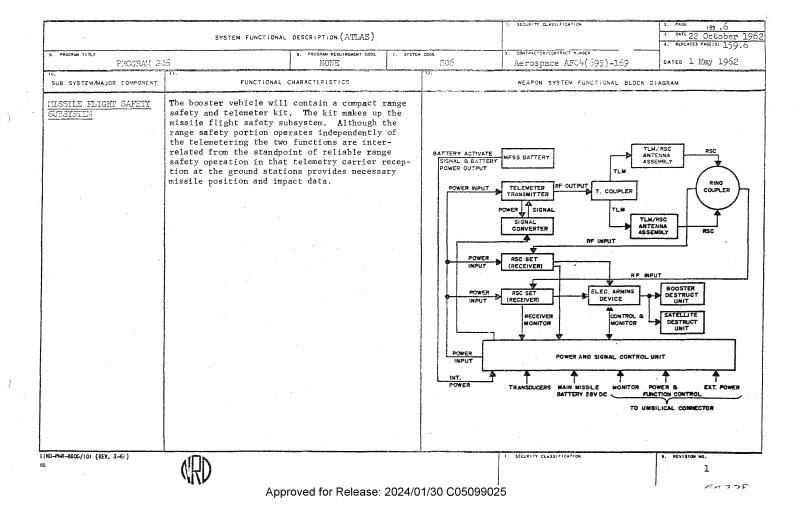
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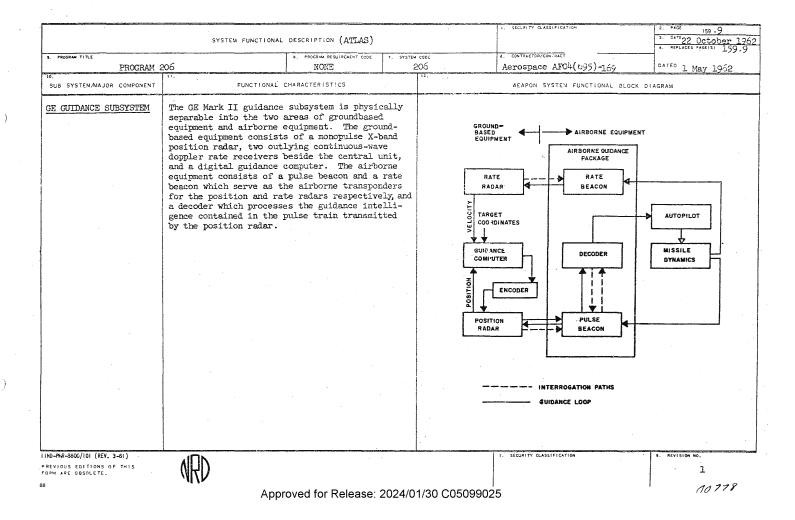
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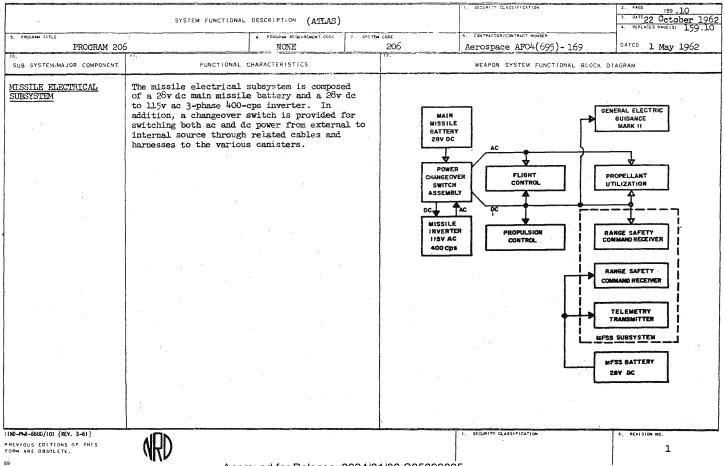
SYSTEM FUNCTIONAL DESCRIPTION (ATLAS)				1. SECURITY CLASSIFICATION	2. PAGE 159.5 3. GATE22 October 1962 4. REPLACES PAGE(S) 150.5
s. FROGRAM TITLE PROGRAM 206		6. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE 206	a. CONTRACTOR/CONTRACT NUMBER APPOSIDACE APO4(695)+169	DATED 1 May 1962
SUB SYSTEM/MAJOR COMPONENT	FUNCTIONAL C	HARACTER 1571CS		WEAPON SYSTEM FUNCTIONAL BLOC	K DIAGRAM
PROPELLANT UTILIZATION SUBSYSTEM	The propellant utilization a means of controlling procurately than would be fixed metering orifices tem. Such control is new utilization of propellant limit the performance of propellant consumption is minimum residual propellant accomplished by a propellinstalled in the sustaint valve is capable of causicent in the propellant misustainer engine.  The PU subsystem senses in the tanks by means of meter transducer outputs cally with a reference.	ropellant flow more possible by means in the propellant-ficessary because unbits by the engines method the vehicle. There is scheduled to resulants. The schedulinant utilization values a change of ± 1 inches a change of the the mass of the propension of the mass of the propension of the mass of the propension of the compared electrony are compared electrony and the compared electrony in the compared in the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony are compared electrony and the compared electrony are compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony and the compared electrony are compared electrony are compared electrony are compared electrony and the compared electrony ar	of the eed sys- alanced ight efore, It in ng is lve . This 5 per- e		
IMD-PHR-8800/101 (REV. 3-61)	parison is used to adjust valve to correct the mass propellants.			1. SECURITY CLASSIFICATION	P. REVISION NO.

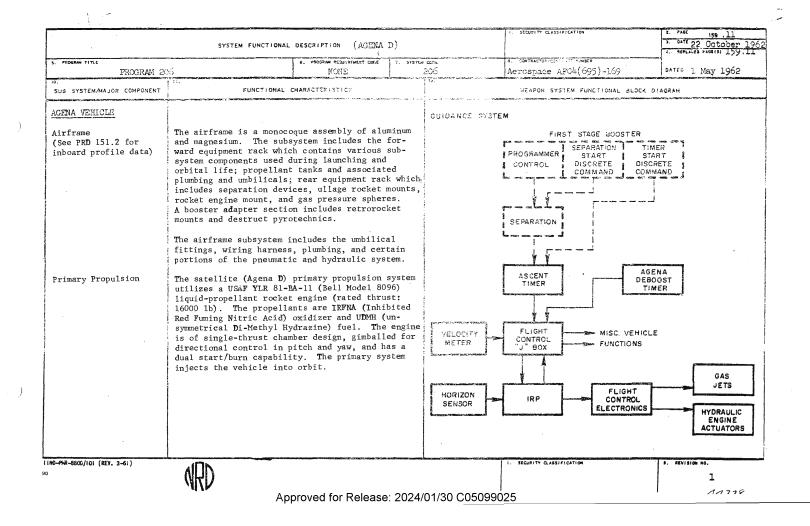


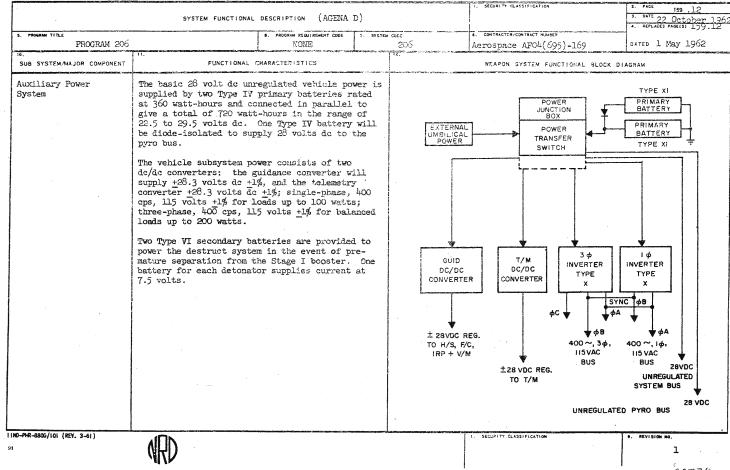
				1	1. SECURITY CLASSIFICATION	2. PAGE 159 7
	SYSTEM FUNCTIONAL	DESCRIPTION (ATLAS)				3. DATE 22 October 196
5. PROGRAM TITLE		6. PROGRAM REGULFEMENT CODE	7. SYSTEM	CODE	B. CONTRACTOR/CONTRACT NUMBER	
PROGRAM 206		NONE	1	506	Aerospace AFC4(695)-169	DATED 1 May 1962
SUB SYSTEM/MAJOR COMPONENT	FUNCTIONAL (	CHARACTERISTICS			WEAPON SYSTEM FUNCTIONAL BLOCK	( DIAGRAM
RANGE SAFETY COMMAND	The Range Safety Command subsystem has as its sol of the flight vehicle in jeopardizes life or proposed to the missil the signal is decoded an destruct command. An exoutside the intermediate by the destruct signal, tanks and causing fuel a the propellants mix, a manifer which totally destroys to the destruct of the propellants mix, a manifer by detonating an adjacent to the propella safety command portion of modified to be compatible tem of the Agena D. The lock-out design and can ground-initiated command safety command system, wand Agena D simultaneous function resulting from during the boost phase, the Agena D. The Agena abled at sustainer engin tional separation of the destructions.	Le purpose the destrict case erratic flighterty.  Ler vehicle is accommodulated FM signal aborne receivers; to deconverted into a polosive charge (loce bulkhead) is deton rupturing the proper and exidizer to mix. However, to be destroyed in a explosive charge loce at the total series of comma be actuated either a through the booste which will destroy by, or as an automa premature separatio which will destroy to destruct circuit is cutoff so that in	plished from here, ated ated llant When curs similar cated e s been sys-nd and by a r range only is disten-	(PRD 154.1) is posed of a rece a ring coupler, The subsystem and power controlled the Agena D-bor consists of a dependence of a decension of the consists of a dependence of a decension of the consists of a decension of the consists of a decension	The portion of the Flight Ter- lestructor unit, the prematur the destruct circuitry.  Line AME Cotar sites will be unging. The AME Cotar system the RF radiation of the telem measure the direction cosine missile from the center-line fields. The AME Cotar System the MFSS, provides the necessar act points.	s (each in turn com- ry, and a power supply), and a destructor unit. he signal conditioner y jointly with the  mination Subsystem e separation destruct  used for correlation is a passive missile- etry transmitter in s between the space s of two cross-baseline m, in conjunction with ry trajectory data for
IIND-PNR-8800/101 (REV. 3-61) 8 6	<b>NRD</b>				1. SECURITY CLASSIFICATION	9. REVISION NO.

		V LLONGE CHORNE SERVING CO.		1. SECURITY CLASSIFICATION	2. PAGE 159.8
·	SYSTEM FUNCTIONAL DESCRIPTI	ON (ATTLAS)		i	3. DATE 22 October 1962
		RCQUIREMENT CODE 7. SYSTE		B. CONTRACTOP/CONTRACT NUMBER	4. REPLACES PAGEISI 159.8
5. PROGRAM TITLE PROGRAM 206	6. PROGRAD		206	Aerospace AFO4(695)-	169 DATED 1 May 1952
10.	11.	and the second s	12.	The state of the s	30)
SUB SYSTEM/MAJOR COMPONENT	FUNCTIONAL CHARACTERI	ST I CS		WEAPON SYSTEM FUNCTIO	NAL BLOCK DIAGRAM
TELEMETRY	The telemetry portion of the suffirst-stage functions from before after Atlas/Agena separation. subsystem is modified to the exaddition of a signal conditione: package which is required for Onel 12 receives the axial stringeter (Ulo1A) output directly.  A signal conditioner and power concludes the function of a junctional matching of transduce	re launch until The MFSS telemetry tent of the r/commutator namnel 13. Chan- g type accelerom- tentrol package tion box, providin			
	government-furnished signal common controlling power to the telement safety subsystems.  The signal converter receives confrom the signal conditioner and unit and combines them into a sit to the transmitter. The signal contains plug-in modules includit tribution unit, 7 subcarrier osciulational and single commutator units verter, and a dual voltage regulation.	erter package and ry and range anditioned signals power control gnal which is fed converter chassis ing a signal dis- cillator units, a power con-			
	The transmitter accepts a combin signal which modulates the transtransmitted as a 25-watt FM/FM/r	mitter and is			
i ind-phr-8806/101 (rev. 3-51)	4100			1. SECURITY CLASSIFICATION	9. REVISION NO.
PREVIOUS EDITIONS OF THIS FORM ARE DESCLETE.	(1KI)				1
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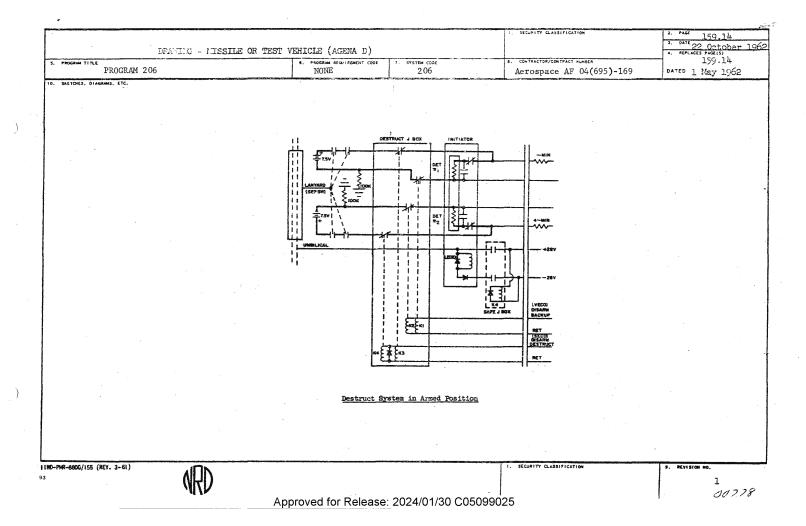


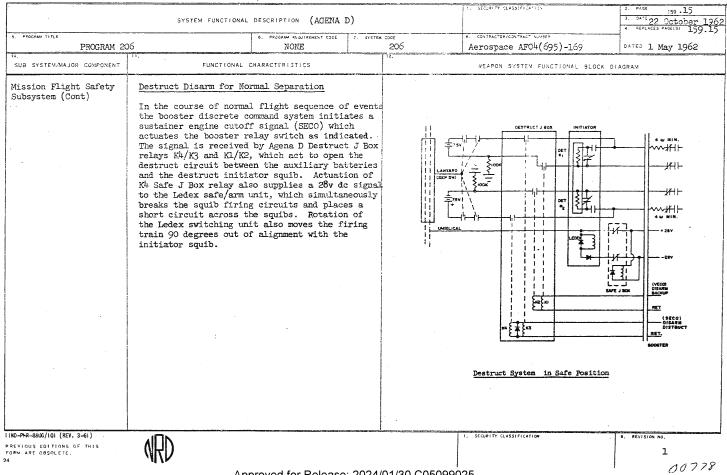






	SYSTEM FUNCTIONAL	DESCRIPTION (AGENA D)		1. SECURITY GLASSIFICATION	2. PAGE 159.13 3. OATE 22 October 196 4. REPLACES PAGE(3) 159.13
S. PROGRAM SITLE		1	STEM CODE	8 CONTRACTOR/CONTRACT NUMBER	
PROGRAM 20	)6 11.	NONE	206	Aerospace AFC4(695)-169	DATED   1 May 1962
SUB SYSTEM.MAJOR COMPONENT	FUNCTIONAL :	CHARACTER: STICS	THE THE PERSON OF THE PERSON AND PROPERTY.	WEAPON SYSTEM FUNCTIONAL I	BLOCK STAGRAM
3. Missile Flight Safety Subsystem	safeguard this destruct current limiting resist rf energy interference the current supplied to assuring booster destru- cuiting of the squib co switch is shown in the schematic diagram giver	marge will be detonated signal received through command receiver. As a circuit employs 10-ohm tors to provide additional protection and to limit to the vehicle, thus not in case of short circuit system. The Ledex "Arm" position in the in PRD 159.14.	1		
	and the Agena D combined destruct signal by mean represented by the hear schematic diagram. Two separation switches, San auxiliary battery companies and the separation switches, San auxiliary battery companies.	ns of the circuitry  y lines in the PRD 159.1  o lanyard-operated  l and S-2, act to close treuit, thus supplying initiator squib through			
ND-PHR-8800/IGI (REV. 3-61) REVIOUS EDITIONS OF THIS ORM ARE OBSOLETE.	(RD	nindagaga (Costa) ya Aree ya macaaniy ya kaya 120 Albaha e dadha ee da ayaa ya Albaha ee dadha ee da ayaa gaba		1. SECURITY CLASSIFICATION	9. REVISION NO.
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system functional description (AGENA D)						SECURITY CLASSIFI			2. PAGE 159.16 3. DATE 22 October 196 4. REPLACES PAGE(S) 1)9.10		
5. PROGRAM TITLE PROGRAM 200	-	6. PROGRAM REQUIREMENT CODE	7. SYSTEM 206	CCOE	Aerospace AFC4(695)-769			DATED 1 Maj	v 1962		
ID. SUB SYSTEM/MAJOR COMPONENT	11	HARACTER ISTICS	200	12.	Į A	ana pagamana	EM FUNCTIONAL B	LOCK DIA			
Guidance and Control (See block diagram PRD 159.11)	The Agena-D guidance and includes equipment used (booster/Agena) through	from initial separ	ation	Guidance (Diagram							
	Initial separation, alth on a booster guidance si on the ascent timer whic sequent to booster SECO by a signal from the boo booster signal also unca and disarms the destruct separation).	gnal, is finally d h has been started and prior to boost ster guidance syst ges vehicle guidan	ependent sub- er VECO em. A								
	After separation and dur attitude reference is ma IRP (intertial reference sensor. The Agena ascen necessary start signals well as signals to inititions. A velocity meter Agena engine cutoff.	intained by means package) plus a het timer provides to for the Agena enginate other vehicle	of the orizon he ne as func-				•				
	Agena flight control dep during Agena coast, roll gimballing during Agena l jets during the presepara	gas jets plus eng boost, and gas read	ine								
			· ·								
40-P+R-6800/101 (REY. 3-61)	(R)	proved for Release	e: 2024/0	)1/30 C05(		SECURITY CLASSIFIC	ZÓZZCO-PHIRMINESSO (1935) PAÑA (MARIANIA) (1936) CATION		S. REVISION NO.	1 -	

	SYSTEM FUNCTIONAL	DESCRIPTION (SATELL)	TE VEHI	CCLE)	1. SECURITY OLESSIFICATION	2. PAGE 159,17 3. DATE 22 October 196
5. PROGRAM TITLE PROGRAM	206	6. PROGRAM REQUIREMENT CODE NONE	7 (VSTEW	205	Aerospace AFC4(695)-169	Original
10. SUB SYSTEM/MAJOR COMPONENT	FUNCTIONAL (	CHARACTERISTICS	HART-LOMBURETUCKER	12.	WEAPON SYSTEM FUNCTIONAL BLOC	R DIAGRAM
SATELLITE VEHICLE	The mission of the Atla orbit a satellite vehicle system consists of an Athe satellite vehicle (flight system is assembonly interfaces existin Agena are mechanical. final countdown, and la and is monitored and could high-pressure gases will VSB prior to final mati	le. The total fligitas D, an Agena D, SV). The complete led at the pad. The g between the SV and Propellant loading, unch occurs at the F otrolled from the LC l be loaded at the	and			
	The most important respiracking station in partesting on the pad is liflight program in the Scountdown. The SV airbiprescribed time before	onsibility of the VA ticipating in SV sys- cading of the initia V programmer during orne clock is starte launch.	tems 1 final d at a		· .	•
	The Agena D and the SV and Atlas following initial as previously described designated altitude. In fairing and hatches are control system reorients altitude prior to igniting propulsion system is the to shut down when the agreement attained. Injection of the standard operational	boost and vernier of and then coast to uring the coast, all ejected and the Ages the vehicle into plon. The Agena primen ignited and comma propriate velocity on altitude and velo	utoff, a na roper ary nded has city			
ND-PNR-8800/101 (REV. 3-61) REVIOUS EDITIONS OF THIS	VIUV				1. SECURITY CLASSIFICATION	9. REVISION NO.

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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	SYSTEM FUNCTIONAL	DESCRIPTION (SATEL	LITE VEHICL	E)	1. SECURITY CLASSIFICATION		2. PAGE 159.18  3. DATE 22 October 1 4. REPLACES PAGE (5)	
s. program title PROGRAM 206		6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE	5	s. contractor/contract number Aerospace AFO4(695)-169		DATED: Or	iginal
SUB SYSTEM/MAJOR COMPONENT	FUNCTIONAL (	CHARACYERISTICS	12.		WEAPON SYSTEM F	UNCTIONAL BLOCK O	IAGRAM	
SATELLITE VEHICLE (Cont	high to guarantee suffithe ephemeris and apply before the orbit has de altitude. Nominally twelocity decrements. A after Agena cutoff. Thinitiated by a stored oppogrammer. A switch the SV remaining on the signals the Agena when	a correction impuls cayed to an unbearal he correction will if gena/SV separation e separation signal ommand from the SV om mounted on the sect: Agena after separa	se ble be becurs is command lon of					
	The orbit-adjust subsyst correction and orbit conduring a mission.							
		÷						
			-		,			
IINO-PR-8800/IOI (REV. 3-61) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.	<b>NRD</b>				1. SECURITY CLASSIFICATION		9. REVISION R	0.

				1. SECURITY CLASSIF: CATION	2 PAGE 160
•	RANGE USER'S	INSTRUMENTATION (	ATLAS)	·	22 October 19
, PROGRAM TITLE	PROGRAM 205	8. PROGRAM REQUIREMENT CO NONE	7. SYSTEM CODE 206	Aerospace AF04(595)-159	a. REPLACES PAGE(S) 160 DATED1 May 1962
TEM TEST NO. CODE	erief description of all range	USER'S ELECTRONIC, (	OPTICAL AND OTHER GROUND	INSTRUMENTATION EQUIPMENT TO BE USED DU	RING THE TEST PROGRAM
L	GE Mark II ground guidance tracker p	osition subsystem	n .		
	GE Mark II ground guidance tracker r	ate subsystem		•	
	Telemetry receivers (2) - One locate	ed near MAB 3 and	one located on hill r	mear PALC 1	•
	GE Mark II ground pulse radar receiv	<i>r</i> er	•		
	GE Mark II ground rate sensing recei	ivers			
			•		
PHR-8800/102 (REV	(A) (A)			1. SECURITY CLASSIFICATION	9. REVISION NO.
	∇nu <b>√i j∨</b>	roved for Releas	e: 2024/01/30 C0509	99025	

	RANGE USER'S	INSTRUMENTATION (AGE	NA D)	1 1. SECURITY CLASSIFICATION	2 PAGE 160.1 50°E 22 October 1962 4. REPLACES PAGE(S) 160.1
5. PROGRAM TITLE	PROGRAM 206	6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM ECDE 206	Aerospace AF04(695)-169	DATED 1 May 1962
ITEM TEST NO. CODE	BRIEF DESCRIPTION OF ALL RANGE	USER'S ELECTRONIC, OFT	CAL AND OTHER GROUND IN	STRUMENTATION EQUIPMENT TO BE USED DUR	ING THE TEST PROGRAM
1 B,C,G	Rf antenna and test equipment to pro				
2 A,B,C	VERLORT radar for providing tracking vehicle-borne S-band transponder, as	information in the well as a command of	form of azimuth and apability through us	elevation angles and slant range e of command pulses.	with the aid of a
3 A,B,C E,G	VHF telemetry receiving station for	receiving telemetry	data from the Agena.		
A,B,C, E,G	Doppler transmitting and receiving s information on a non-interference ba		VHF three-axis 60-foo	ot parabolic antenna, for obtaini	ing Doppler
A,B,F, E,G	TLM-18 autotracker for VHF telemetry	and angle-tracking	data.		
6 A,B,C	Tri-helix antenna for acquisition of	VHF telemetry signs	al.		•
	·				
ID-PHR-8800/102 (RI	(R)			1. SECURITY CLASSIFICATION	9. REVISION NO.

5. PROGRAM T	THE	RANGE USER'S	INSTRUMENTATION (G.E.)	SYSTEM COCE	3. DONTRACTOR/CONTRACT NAMER	3. CATE 22 October 196 4. PEPLACES *AJE(3) 160.2
7. 7.000.00	PROGRAM 206		NOME	206	Aerospace AF04(695)-169	DATED 1 May 1962
TEM TE	ST . BRIEF	DESCRIPTION OF ALL RANGE	USER'S ELECTRONIC, OPTICAL	. AND OTHER GROUND INSTR	RUMENTATION EQUIPMENT TO BE USED DURIS	NG THE TEST PROGRAM
1 ABO	CGI Satellite ins	trumentation ground mo	nitor equipment (SIGM	E) (AGE End Item #88	)	
1 LND-PMR-8800/	102 (REV. 3-61)	NRD			1. SECURITY CLASSIFICATION	3. REVISION NO.

	01 TO 100 TO TO TO TO TO THE TOTAL THE TOTAL TO THE TOTAL			2. PAGE 161 3. DAT 22 October 1962	
INSTRUMENTATI	ON - TRANSMITTERS (SURFACE/AIR/QTHER)(A	tlas Rate Guidance)		4. REPLACES PAGE SH.	
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT CODE 7.	SYSTEM CODE	B. CONTRACTOR: CONTRACT NUMBER	161	
PROGRAM 206	NONE	206	Aerospace AF04(695)-169	OATED 1 May 1962	
10. TRANSMITTER CHARACTERISTICS	11. ANTENNA CHARACTERISTICS	12. PURP	OSE AND REMARKS	TEST CODE:	
A. LOCATION: Mark II Ground Sta.	A. LOCATION: Mark II Ground Sta.				
B. TYPE: Rate Subsystem C. MODEL: MARK II C. MODEL: MARK II O: MANUFACTURER: GENERAL ELECTTIC E. NUMBER OF EQUIPMENTS: ONE    FIXED	H. MAXIMUM GAIN IN DO WITH RESPECT TO ISOTROPIC: 20 DO  1. MAIN LOBE BEAMWIDTH IN DEGREES AT 30B POINTS; ELEVATION 50 AZIMUTH 50  J. RATE OFROTATION * INDICATE IF FIXED RPM, FIXED  K. IS THERE AVAILABLE A SPECTRUM RESPONSE REPORT ON THIS ANTENNA? YES 10 NO (IF YES, PROVIDE ONE COPY)				
TIME WILL BE REQUIRED TO BE EQUIPPED WITH A CLOSED LOOP OR NON-RADIATING CHECKOUT DEVISE.					
IND-PMR-8800/103 (REV. 3-61)			1. SECURITY CLASSIFICATION	. 9. REVISION NO.	
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INSTRUMENTATIO	UN - TRANSMITTE	RS (SURFACE/AIR/OTHER)	(Atlas Position Guidance)	2	1		3. DATE 22 OC	tober 196
5. PROGRAM 11 TLE		6. PROGRAM RESULPENENT CODE	7. SYSTEM CORE		d. LOY TRACTOR/GONTRACT	N, WBEA		161.1
PROGRAM 206		NOME	206		Aerospace AFO	4(695)-169	EATED 1 May 1962	
10. TRANSMITTER CHARACTERISTICS	11. ANTEN	NA CHARACTERISTICS	12.	PURI	POSE AND REMARKS		TEST CODE:	
A. LOCATION: Mark II Ground Sta.	A. LOCATION: Ma	rk II Ground Sta.		Mini				
B. TYPE: Magnitron	a. TYPE: Hornfe	ed reflector				*		
C. MODEL: Mark II	C. MODEL:							
D. MANUFACTURER:General Electric		e: General Electric						
E. NUMBER OF EQUIPMENTS;	E. FREQUENCY RA	N368500-9600	MS .					
□X) PIXED	F. TUNABLE	K FIXED TUNES						
Moaile	G. PREDOMINANT	POLARIZATION; ICHECK ONLY	ONE:					
F. TYPE OF SERVICE;	X VERTICAL							
GND/GND, X GND/AIR, OTHER,	- HORIZONT	a L						
	CIRCULAR:	SENSE: THE TRH						
G. FREQUENCY HANGE:8500-9600 MC	OTHER	- == == .						
H. TUNABLE X FIXED TUNED	1	N DP WITH RESPECT TO						
I. METHOD OF FREQUENCY CONTROL:	ISOTROPIC:		DP					
I METHOD OF PREQUENCY CONTROL.	1	WWIDTH IN DEGREES AT 308						
J. BANDWIDTH AT 3DB: MG.	E .	TION 20 LAZIMUTH 20						•
1	'	FION - INDICATE IF FIXED						
			İ					
K. EMISSION: AM, FM, X PULSE,	variable	RPM, TIXED						
COMPOSITE NONSTANDARO		ABLE A SPECTRUM RESPONSE	į					
L. FREQUENCY STABILITY: 1 MC		SANTENNA? 🗀 YES 🔀	40					
M. AVERAGE POWER: WATTS	(IF YES, PROVIC	E ONE COPY)						
N. PEAK PULSE POWER: 65K WATTS								
O. MAXIMUM PRF: 140 messages/sec PPs								
P. PULSE WIDTHS: 0.5 US, US, US						*		
AT 3DB POINTS.	1							
Q. HARMONIC SUPPRESSION: 2ND DB,								
3RD DB,4TH DB.	1							
R. CODING AND/OR MODULATION: 14-Pulse message								
S. IS THERE AVAILABLE A SPECTRUM ANALYSIS								
REPORT ON THIS TRANSMITTER: TYES X NO			1					
(IF YES, PROVIDE ONE COPY)	-							
NOTE: TRANSMITTING SYSTEMS WHICH REQUIRE EXTENSIVE PERIODS OF RF CHECKOUT TIME WILL BE REQUIRED TO BE EQUIPPED WITH A CLOSED LOOP OR NON-RADIATING CHECKOUT DEVISE.								
IIND-PMR-8800/103 (REV. 3-61)	·	NAME OF TAXABLE PARTY O			1. SECURITY CLASSIFICATI	ON	9. REVISION NO.	
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					1. SECURITY CLASSIFICATION	WARREST - WWW.PRT	2. PAGE	161 .2
. INSTRUMENTATIO	N - TRANSMITTE	RS (SURFACE/AIR/OTHE	R) (V	ERLORT RADAR)			3. DAYE 22 OC	toher 1962
5. PROGRAM TITLE		6. PROGRAM REQUIREMENT CODE	7.	SYSTEM CODE	8. CONTRACTOR/CONTRACT NUM	BER	161	.2
PROGRAM 206		NONE	-	206	Aerospace AF04(	(695)-169	DATED 1 Ma	y 1962
10. TRANSMITTER CHARACTERISTICS	11. ANTENN	A CHARACTERISTICS		12. PURP	OSE AND REMARKS		TEST CODE:	Edited Théorage (Section Control of Section Control
A. LOCATION: VTS		VTS		Tracking during	launch phase	-		
B. TYPE: Verlort	B. TYPE: 10-f	t parabolic reflect	or					
c. MODEL: SCR 584 (modified)	C. MODEL:							
D. MANUFACTURER: Reeves (modification)	D. MANUFACTURER	:						
E. NUMBER OF EQUIPMENTS;	E. FREQUENCY RAI	43E: 2700-3000	MC					
FIXED	F. TUNABLE	X FIXED TUNED						
MOBILE	G. PREDOMINANT P	OLARIZATION; (CHECK ONL	Y ONE)					
F. TYPE OF SERVICE;	VERTICAL			-				
GND/GND, X GND/AIR, GOTHER,	HORIZONTA	L						
	CX CIRCULAR;	SENSE: LH RH						
G. FREQUENCY RANGE: 2700-3000 MC	OTHER							
H. X TUNABLE FIXED TUNED	H. MAXIMUM GAIN II	DB WITH RESPECT TO						
I. METHOD OF FREQUENCY CONTROL:	ISDTROPIC: 3"		oa					
AFC crystal controlled	_	WIDTH IN DEGREES AT 308				,		
J. BANDWIDTH AT 3DB: MC.		FION 2.50 , AZIMUTH						
AND AT 60DB: MG		ION - INDICATE IF FIXED						
K. EMISSION: AM, FM, X PULSE,	Not known	RPM, FIXED		Er anna				
COMPOSITE NONSTANDARD		ABLE A SPECTRUM RESPONS	-					
		ANTENNA? TYES TE						*
L. FREQUENCY STABILITY: \$ 25 MC	(IF YES, PROVIDE		, NO					
M. AVERAGE POWER: 800 at 410 pps WATTS	(IF YES, PROVIDE	ONE COPY)						
N. PEAK PULSE POWER: 315 kW WATTS								
O. MAXIMUM PRF: 630 PPS								
P. PULSE WIDTHS: 0.8 US, ±0.1 US, US					*			
AT 3DB POINTS.								
Q. HARMONIC SUPPRESSION; 2ND DB,								
3RD DB,4TH DB.								
R. CODING AND/OR MODULATION: 3-Pulse code				*				
S. IS THERE AVAILABLE A SPECTRUM ANALYSIS			- 1					
			- 1					
REPORT ON THIS TRANSMITTER: YES X NO			- 1					
IF YES, PROVIDE ONE COPY!			1					
NOTE: TRANSMITTING SYSTEMS WHICH REQUIRE EXTENSIVE PERIODS OF RF CHECKOUT TIME WILL BE REQUIRED TO SE EQUIPPED WITH A CLOSED LOOP OR NON-RADIATING CHECKOUT DEVISE.								Very magnification of the second seco
IND-PMR-6800/103 (REV. 3-61)			-	T	1. SECURITY CLASSIFICATION	WELLOW THE RESIDENCE OF THE PARTY OF THE PAR	9. REVISION NO.	T
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				1 SECURITY CLASSIFICATION	161 a
INSTRUMENTATIO	N - TRANSMITTE	RS (SURFACE/AIR/OTHER	) (DOPPLER)		2 3476 22 October 1965
·			· (DOLLIENT)		4. REPLACES PAGE(S)
S. PROGRAM TITLE		6. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE	a. CONTRACTOR/CONTRACT NUMBER	161.3
PROGRAM 206		NONE	206	Aerospace AF04(695)-169	DATED 1 May 1962
10. TRANSMITTER CHARACTERISTICS	11. ANTEN	NA CHARACTERISTICS	12.	PURPOSE AND REMARKS	TEST CODE:
a. LOCATION: VTS  B. TYPE: Cw, crystal-controlled	в. түре: 60',	TS 3-axis parabolic	at liftoff	for positive indication of proper tr f. Desired for Doppler range rate a icle crosses horizon as seen from la	nd angle track data
c. Model: Not known	C. MODEL: Not		dittil veni	rote crosses northon as seen from ta	andir bioc.
D. MANUFACTURER: STL	D. MANUFACTURE				•
E. NUMBER OF EQUIPMENTS:	E. FREQUENCY RA		MC		
X FIXEO	F. TUNABLE	X FIXED TUNED			
MOBILE	G, PREDOMINANT	POLARIZATION: (CHECK ONLY	ONE		
F. TYPE OF SERVICE:	X HORIZONTA				
GND/GND. T GND/AIR. OTHER.		SENSE: 🖾 LH 🦳 RH			
G. FREQUENCY RANGE: 375.360 MC	OTHER	scase. Genta Chan			
H. TUNABLE X FIXED TUNED	,	OT TOBASSE STIM ED M			
I. METHOD OF FREQUENCY CONTROL:  Crystal-controlled	ISOTROPIC: 31		Da		
J. BANDWIDTH AT 30B: NA MC.	POINTS: ELEVA		0		
		TION - INDICATE IF FIXED			
K. EMISSION: AM, FM, PULSE,	NA	RPM. TIXED		•	
COMPOSITE NONSTANCARD X CVI	K. IS THERE AVAIL	ABLE A SPECTRUM RESPONS	<u>.</u>		
L. FREQUENCY STABILITY: ± 0.0004 MC	8	SANTENNA? TYES X	i i		
M. AVERAGE POWER: 1000 WATTS	IF YES, PROVID				
N. PEAK PULSE POWER: NA WATTS					
O. MAXIMUM PRF: NA PPS					
P. PULSE WIDTHS: NA US, US. US			}		
AT 308 POINTS.					
Q. HARMONIC SUPPRESSION: 2NO NA DB.					
3RD 08,4TH 08.					
R. CODING AND/OR MODULATION: NA				· .	
			1	•	
S. IS THERE AVAILABLE A SPECTRUM ANALYSIS			}		
REPORT ON THIS TRANSMITTER: YES X NO					
IIF YES, PROVIOE ONE COPY)					* .
NOTE: TRANSMITTING SYSTEMS WHICH REQUIRE EXTENSIVE PERIODS OF RF CHECKOUT TIME WILL SE REQUIRED TO SE EQUIPPED WITH A CLOSED LOOP OR NON-RADIATING CHECKOUT DEVISE.					
IIND THR-8800/103 (REV. 3-61)				1. SECURITY CLASSIFICATION	9. REVISION NO.
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			1 SECURITY CLASSIFICATION	2. PAGE 162
INST	RUMENTATION - RECEIVERS (SURFACE/AIR/OTHE	RS(ATLAS GUIDANCE)		3. 22 October 1962
5. PROGRAM TITLE	E. PROGRÂM RECUTREMENT CODE	7. SYSTEM GGGE	8 CONTRACTOR/CONTRACT NUMBER	4. REPLACES PAGE(S)
PROGRAM 206	NGNE	206	Aerospace AF04(695)-169	DATED 1 May 1962
RECEIVER CHARACTERISTICS	ANTENNA CHARACTERISTICS	12.	PURPOSE AND REMARKS	TEST COCK!
A. LOCATION: VAFB	A. LOCATION: VAFB	Ground radio gu	uidance subsystem used during At	las D portion of
B. TYPE: Rate subsystem	B. TYPE: 5-Station, cruciform	powered flight.	•	
c. MODEL: Mark II	c. MODEL: Mark II			
D. MANUFACTURER: General Electric	D. MANUFACTURER: General Electric			
E. NO. OF EQUIPMENTS - FIXED OR MOBILE:	E. DIRECTIVITY AND BEAMWIDTH IN AZIMUTH & ELEVATION - 1 POWER: 10 + 2			
One fixed  F. RECEIVING FRED. TOLERANCES IN PERCENTAGE:	F. RATE OF ROTATION, INDICATE IF FIXED: Fixed	4		
Not known G. METHOD OF RECEIVER FREQ. CONTROL. AFC	G. FREO. HANGE OF ANTENNA: 2200-2300 MC			
H. INTERMEDIATE FREG.: 30 Mc	H. POLARIZATION: Vertical			
I. RCVR. SELECTIVITY IN DB-3DB, 2008 & 6008:	I. IS THERE AVAILABLE A SPECTRUM ANALYSIS			
J. RCVR, SENSITIVITY: -108 Not known	REPORT ON THIS ANTENNA? YES X NO			
K. LOCAL DSCILLATOR FREQUENCY (ABOVE OR BELOW): Not known				-
L. SPURIOUS RESPONSE REJECTION: DB				
M. CODED AND/OR MODULATION: None			, <u>.</u>	-
N. IS THERE AVAILABLE A SPECTRUM ANALYSIS  REPORT ON THIS RECEIVER? YES X NO		·		·
O. Receiving Frequency: 2300 + 0.22 M				
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11HD-PMR-8800/104 (REV. 3-61)			1. SECURITY CLASSIFICATION	9. REVISION NO.
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INST	NIMENTATION - PF	CE:VERS (SURFACE/ATR/OTH	ers) (Amilas cultuance)	I SECURITY CLASSIFICATION	2. PAGE 162 1 3. OATE 22 October 1962
111311		-2 (JUNI ACE ATTO JUNI	(utimo convence)		4. REPLACES PAGE(5)
S. PROGRAM TITLE		6. PROGRAM REQUIREMENT CODE	1. SYSTEM CODE	B. CONTRACTOR/CONTRACT NUMBER	162.1
PROGRAM 206	II.	NOWE	206	Aerospace AF04(695)-169	DATED 1 May 1962
RECEIVER CHARACTERISTICS		NNA CHARACTERISTICS		PURPOSE AND REMARKS	
A. LOCATION: VAFB	A. LOCATION: VA	FB		guidance subsystem used during A	tlas D portion of
B. Tre: Track subsystem	s. Type: Parel	bolic	powered fligh	L	•
c. MODEL: Mark II	c. MEDEL: II				
D. MANUFACTURER: General Electric	D. MANUFACTURER	General Electric	***		
E. NO. OF EQUIPMENTS - FIXED OF MOBILE	E. DIRECTIVITY AN	nd seamends for although & Mot known	1		
One fixed  F. RECEIVING FREQ. TOLERANCES IN PERCENTAGE:		TOWN NOT KNOWN			
Not known G. METHOD OF RECEIVER FREG. CONTROL	G. FRED, RANGE OF	Not known	**************************************		
V EAL	H. POLARIZATIO				
1. RCVR. SELECTIVITY IN DB-3DB, 2008 & 600B	I. IS THERE AVAIL	Vertical JABLE A SHEGEROM ANALYSIS			
J. RCVR. SENSITIVITY: DBM	REPORT ON THIS	ANTENICA? TES E 40			
Not known K. LOCAL OSCILLATOR FREQUENCY (ABOVE OR BELOW):					
Not known L. SPURIOUS RESPONSE REJECTION: DB					•
M. CODED AND/OR MODULATION: PCM					
N. IS THERE AVAILABLE A SPECTRUM ANALYSIS				•	
REPORT ON THIS RECEIVER? YES 3 HO					
O. Receiving frequency: 8850 ± 20 Mc					
1					
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IND-PHR-8800/104 (REY. 3-51)				1. SECURITY CLASSIFICATION	9. REVISION NO.
os (VHI)					1

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INST	RUMENTATION - REC	EIVERS (SURFACE/AIR/OTH	iers)(V	HF TELEMETRY)		3. DATE 22 October 1962
S. PROGRAM TIYLE		6. PROGRAM REQUIREMENT CODE	7. SYST	EM CODE	8 CONTRACTOR/CONTRACT NUMBER	162.2
PROGRAM 206		NONE	2	06	Aerospace AF04(695)-169	DATED 1 May 1962
RECEIVER CHARACTERISTICS	ANTE	NNA CHARACTERISTICS		12.	PURPOSE AND REMARKS	TEST CODE:
a. LOCATION: TIM trailer	A. LOCATION: TI	M trailer	115 (VE)(24)	Receive telemetry	y signals from Atlas D during	checkout and flight.
B. TYPE: Special purpose	B. TYPE; Helio	cal				
c. MOGEL: 1412	C. MODEL					
D. MANUFACTURER: Nems Clark	D. MANUFACTURER	Nems Clark	-			
E. NO. OF EQUIPMENTS - FIXED OR MOBILE: 2 trailers (mobile)	E. DIRECTIVITY AND ELEVATION - ‡	D BEAMWIDTH IN AZIMUTH & POWER: 38-450		One trailer parke	ed at remote site (near launch	site).
F. RECEIVING FRED. TOLERANCES IN PERCENTAGE: +0.01	F. RATE OF ROTATE	on, indicate if fixed: Majni	ual	One trailer parke	ed at MAB VAFB.	•
G. METHOD OF RECEIVER FREQ. CONTROL: Crystal	G. FREQ. RANGE OF	ANTENNA: 215-260 Mc	-			
H. INTERMEDIATE FREQ.: 30 Mg - 5 Mg	H. POLARIZATION:	LH (circular)	ļ			
1. RCVR. SELECTIVITY IN DB-30B, 20DB & 60DB; 28 db		ABLE A SPECTRUM ANALYSIS	I			
J. RCVR. SENSITIVITY: 2 µ V DBM	REPORT ON THIS	ANTENNA? YES K NO				
K. LOCAL OSCILLATOR FREQUENCY (ABOVE OR BELOW) 30 MC						
L. SPURIOUS RESPONSE REJECTION: 60 DB			l			
M. CODED AND/OR MODULATION: MOD/FM						
N. IS THERE AVAILABLE A SPECTRUM ANALYSIS REPORT ON THIS RECEIVER? YES X NO			.			
O. Receiving Frequency: 249.9 Mc			-			•
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IIND-PMR-8800/104 (REV. 3-61)		The second secon			1. SECURITY CLASSIFICATION	9. REVISION NO.
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INST	TRUMENTATION - RECEIVERS (SURFACE/AIR/OTHERS)			3 PATE 22 October 1962
	(TIM-18 TELEMETRY)			4 REPLACES PAGE(S)
S. PPOGRAM TITLE	6. PROGRAM REQUIREMENT CODE 7. S	STEM CODE	8 CONTRACTOR CONTRACT & JASES	162.3
PROGRAM 206	COVE	206	Aerospace AFO4(695)-169	SATED   1 May 1962
RECEIVER CHARACTERISTICS	ANTENNA CHARACTERISTICS	10	PUPPOSE AND REMARKS	501 242.63
A. LOCATION: VAFB - VTS	A. LOCATION: VAFB - VTS	Receive telemetr	y signals from missile during c	heckout and flight.
e. TYPE: VHF FM/FM telemetry	B. TYPE: VHF, 60 ft parabolic			
E. MODEL: 1302A	c. MODEL: TLM-18 R1162			
C. MANUFACTUPER Nems Clark	D. MANUFACTURER Kennedy			
E. NO. OF EQUIPMENTS - FIXED FH FTE/YE/ 3	E. DIRECTIVITY AND SEAMWIDTH AN AXEMITH S ELEVATION . } POWER: 7.6 deg			
F. RECEIVING FREG. TOLERANCES IN PERCENTAGE 1%	F. RATE OF ROTATION, INDICATE IF FIXED. Auto			
G. METHOD OF RECEIVER FRED. CONTROL AFC, crystal	track 6 deg per second c. FREQ. RANGE OF ANTENNA: 215-260 Mc			
n. "STERMEDIATE FREG.: 30 Mc COntrol	H. POLARIZATION: Rotating linear/conical			
. ROVP. SELECTIVITY IN DB.306. /3000 A 6008:	1. IS THERE AVAILABLE A SPECTRUM ANALYSIS			
J. ROVA, SENSITIVETY: 300 kg	REFORT ON THIS ANTENNA? X YES NO			
K. LOCAL OSCILLATOR FREQUENCY (ABOVE OR BELOW):				
L. SPURIOUS RESPONSE REJECTION: DB				
16. Legger July port MOCULATION: FM/MF				
N. IS THERE AVAILABLE A SPECTRUM ANALYSIS PEPORT ON THIS RECEIVER: X YES NO		AND THE PROPERTY AND TH		
O. Receiving Frequencies:				
228.2 Mc				
231.4 Mc				
235 Mc 248.6 Mc				
258 5 Me	*			
1		1		
	·			
1:ND-PMR-8800/104 (REV. 3-61) 45"")>	The second secon	- (T2-3247730) - NASARAN STANON SANAK	) SECURITY CLASSIFICATION	9. SEVISION NO.
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			1. SECURITY CARSETY CATION	2. PAGE 152, L
INST	TRUMENTATION - RECEIVERS "(SURFACE, A) R/O	thers) (VERLORT RADAR)	) - [	3. PATE 22 October 1962
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE	8 CONTRACTOR/CONTRACT NUMBER	162.4
PROGRAM 206	NONE	206	Aerospace AF04(695)-169	DATED 1 May 1962
RECEIVER CHARACTERISTICS	ANTENNA CHARACTERISTICS	12.	PURPOSE AND REMARKS	A SA COS S. COMPANY CONTRACTOR OF THE STREET
A. LOCATION: VAFB - VTS	A. LOCATION: VAFB - VTS	Tracking duri	ing launch phase	. ,
8. TYPE: Verlort	8. TYPE: 10' Parabolic reflector			
c. Model: SCR 584 (modified)	c. MCDEL: Not known			
D. MANUFACTURER: Reeves (modification)	D. MANUFACTURER: Not known			
E. NO. OF EQUIPMENTS - FIXED OR MOBILE: 1  F. RECEIVING FRED. TOLERANCES IN PERCENTAGE: 280073000 G. METHOD OF RECEIVER FRED. CONTROL! (AFC-Crystal H. INTERMEDIATE FRED. 30 Mc Oscillator Oscillator				
i. RCVR. SELECTIVITY IN DB-3DB, 2008 & 60DB:	SCAN  1. IS THERE AVAILABLE A SPECTRUM ANALYSIS			
J. RCVR. SENSITIVITY: (Approx.) -90 DBM	REPORT ON THIS ANTENNA? YES X NO			
K. LOCAL OSCILLATOR FREQUENCY (ABOVE OR BELOW):				
L. SPURIOUS RESPONSE REJECTION: Not known DB	-			
M. CODED AND/OR MODULATION: N/A		1.		
N. IS THERE AVAILABLE A SPECTRUM ANALYSIS REPORT ON THIS RECEIVER? X YES NO				
O. Receiving Frequency: 2920 Mc				
1H0-PHR-88C0/104 (REV. 3-61)			i SECURITY CLASSIFICATION	9. REVISION NG.

INST	RUMENTATION - RE	CEIVERS (SURFACE/A!R/OT)	IERS) (	DOPPLER)	1 Security Clausivica	eco.	2. PAGE 152 5 3 DATE 22 October 4. REPLACES PAGE(S) 2 CO	
9. PROGRAM TITLE PROGRAM 206		6. PROGRAM STOLINEMENT CODE NONE	7. SYST	€ con 206	Aerospace AFO		162	
10. RECEIVER CHARACTERISTICS	ANTE	NNA CHARACTERISTICS	Aug Taran	and the second s	SOURCE STORY STATESTICS THE SE	SE AND REMARKS	The second secon	
A. LOCATION: VAFB  8. TYPE: Coherent, phase-locked, cw  C. MODEL: Not known  D. MANUFACTURER: Not known  E. NO. OF EQUIPMENTS - FIXED OR MOBILE  Not known, fixed  F. RECEIVING FREO. TOLERANCES IN PERCENTAGE: +.01% including Doppler  G. METHOD OF RECEIVER TREO. CONTROL: Phase  H. INTERMEDIATE FREO.: 20 Mc and 5 Mc  1. REVER. SELECTIVITY: 10 B8-308. 2008 8 6008:  NOT KNOWN  J. REVR. SENSITIVITY: -155  K. LOCAL DECILLATOR FREOLENCY (ABOVE OR BELOW):  L. SPURIOUS RESPONSE REJECTION: 60  M. CODED AND/OR HOOULATION: None  N. IS THERE AVAILABLE A SPECTRUM MALVSIS REPORT ON THIS RECLIVER! TES X NO  O. Receiving Frequency: 400.384 Mc	XMITTER DES C. MODEL NOT IX D. MANUFACTURER: E. DIRECTIVITY AN ELEVATION - † F. RATE OF ROTAT: G. FREQ. RANGE OF H. POLARIZATION: 1. IS THERE AVAIL	3-axis, diplexed wateribed on PRD 161 mown	c	at liftoff. Des		range rate and	sponder operation I angle track data ich site.	
1110-PFR-8800/104 (REV. 3-61)					: SECURITY CLASSIF: CATE	ON .	9. REVISION NO.	

INS	FRUMENTATION - RECEIVERS (SURFACE/AIR/OTHERS)		i. SECURITY CLASSIF.CATION	2. PAGE 162.6 3 GATE 22 October 1962 4. REPLACES PAGE(S)
s. PROGRAM TITLE PROGRAM 206	6. PROGRAM REGULERENT CODE 7. SY	STEM CODE 206	Aerosdace AF04(6951-169	Original
RECEIVER CHARACTERISTICS	ANTENNA CHARACTERISTICS	12.	PURPOSE AND REMARKS	YEST COST:
A. LOCATION: MAB 3 Addition; LOB at B. TYPE: PAIC II B. TYPE: VHF C. MODEL: 1671 D. MANUFACTURER: Nems Clarke E. NI. OF EQUIPMENTS . FIXED OR MOBILE: Two per unit, fixed	A. LOCATION: MAB 3 B. TYPE; VHF-BIFILAR HELLX C. MODEL; D. MANUFACTURER; E. DIRECTIVITY AND SEAMWIDTH IN AZIMUTH S ELEVATION - § POWER:		ite instrument; ground moniton stem checker	equipment (SIGME)
F. RECEIVING FREC. TOLERANCES IN FERCENTAGE  1.75-260 Mc G. METHOD OF RECEIVER FRED. CONTROL: VFO  H. INTERMEDIATE FRED.: 21.4 MC  1. REVR. SELECTIVITY IN DB-3DB, 2008 & 600B:  J. REVR. SENSITIVITY: 8 µ V for 23db S/N DBM  A. LOCAL OSCILLATOR FREDUENCY (ABOVE OR-BELOW):  L. SPURIOUS RESPONSE REJECTION: Letter DB	F. RATE OF ROTATION, INDICATE IF FIXED: FIXED G. FRED. RANGE OF ANTENNA: 215-260 Mc H. POLARIZATION: I. IS THERE AVAILABLE A SPECTRUM ANALYSIS REPORT ON THIS ANTENNA?			•
M. CODED AND/OR MODULATION: FM  N. IS THERE AVAILABLE A SPECTRUM ANALYSIS REPORT ON THIS RECEIVER? YES 図 NO				
			·	
TIND-PMR-8800/104 (REV. 3-61)			1. SECURITY CLASSIFICATION	9. REVISION NO.

uju (1950) h Alli juhi ini sasa (1950) h	Y	OCCUPATIONAL HAZARD	S - MEDICAL (ATLAS)		1 BESCAPER CASS FIGURES	2. PAGE 170 3. PATE 22 October 194 4. REPLACES PAGE(S) 170
5. PROGRAM TELLE	PROGRA	M 206	6 PROGRAM REQUIREMENT CODE NONE	7. SYSTEM GODE 206	3. (207942709/2017940: N.MBE) Aerospace AF04(695)~169	4. AEPLACES PAGE(S) 170  CATED 1 May 1962
o. II. TEM TEST NO. COPE	REFGRT DATE	10%	and the second section of the section of the second section of the	z M.m. On tabo	2F	
1.		• TYPE OF MAZARO			— — Hazardous Operation Dual Propellant Loading	Type of Hazard Detonation Pressures & Fragmentation
3.		* CHEMICAL AND PHYSICAL PROPERTIES OF HAZ			LOX Tanking/Handling (no fuel)	Fire GOX Atmosphere Detonation
4. 5.		* SOURCES OF IGNIZING OR RADIO FREQUENCY  * STORAGE, DISPOSAL AND INSTALLATION OF H		PRD 170.1	Fuel Tanking/Handling (no LOX)	Fire
6.		* INJURY OR JOG-RELATED ILLNESS STATISTIC	s ·		Pressurize Airborne Bottles (Above 1500psi)	Rupture & Fragmenta- tion
'.		• PRECAUTIONS				
7.		STATIC AND DYNAMIC PRESSURE FORCES, FRA PRESSURE RANGES OF PNEUMATIC AND HYDRAU		VE OCCUPRED DURING MISSILE EX	Fragmentation Press. on Missile Tanks (dry)	Rupture & Fragmenta- tion
0.		NOZZLE TEMPERATURE AND PRESSURE, IF AVA	ILABLE .		Fuel Leak Check (Seq 11 press.of 60psi)	Fire Due to Rupture and Spillage
					Checkout of Solid Propellant Initiators	Detonation - Fragmentation
The second secon					Solid Charge Handling and Installation	Detonation - Fragmentation
					Hypergol Igniter Handling	Detonation
					Erection & De-erection	Tank Rupture
		* MANDATORY REPORT				
ID-P23-8800/174	8 (REV. 12-61	) ARD	and Children and the sept of Children Children and Children Children Children Children Children Children Children		1. SECURITY CLASSIFICATION	3. REVISION NO.

	eluev. Weter	e egyptelle terregene y terreget y languaget i den det en in de den egypte blevekke felde en treget i i i en d I		reameres de la filipa de la companya de la companya de la companya de la companya de la companya de la companya	1. (2.70, 2) ** (1.2.5) ** (2.	2 34.68 170.1
		JCC:PATIONAL HAZAROS	- MEDICAL (ATLAS)			22 October 196
5. PROGRAM TITLE	PROGRAM	206	S. PHOGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE 206	Aerospace AFO4(695)-169	Criginal Dates
TEN TEST IO. CODE	REPORT DATE	13		MAME OF REP	(97	
3 .		• TYPE OF HAZARD - Refer to Page	170.			
3.		. CHEMICAL AND PHYSICAL PROPERTIES OF HAZZ	pellant	ts," dtd Mar 61, A Lls" by N.I. Sax, 1	strial Hygienist: "The Handling & F1160-39; AF Doc. "Dangerous Prop Reinhold Publ. Corp. Applicable M	erties of Industrial
5.		* NOISE SPECIALM REPORT		n Industrial Hygic Guide for Air Basc	ene Ass'n, Copyright 1958, p. 7-16 e Commanders"	), AF Pamphlet 32-2-1.
6.		* SOURCES OF IONIZING OR RADIO FREQUENCY F	ADIATION - AF Pamp	hlet 160-6-6 "Perm	missible Doses from External Source	es of Ionizing Radiation."
7. R.		STORAGE, DISPOSAL AND INSTALLATION OF HA	_	"Quantity Dista 1: VAFB Regulation	Ord M7-224, Ord.Corp.Manual, Army ance Stds. for Storage of Mass Det ns; AF Disposal per AF Reg. 136-10 stallation of hazardous materials	onating Explosives" "Explosive Ord
10.		* INJURY OR JOB-RELATED STATES STATESTICS	- None at	tributed to a miss	sile mishap (Note 2).	
		* onecautions	- Refer t	to GD/A Safety Rule	es & Reg's; Copies avail from GD/A	Chief Safety Engineer.
		STATIC AND DYNAMIC PRESSURE FORCES, FRAC	MENTATION DISTANCES WHICH HAV	€ OCCUPSED DURING MISSILE	explosions, if available - Refer to Accide 12, AMR.	nt Report, Msl. 90. Pad
		PRESSURE RANGES OF PNEUMATIC AND HYDRAUL	IC SYSTEMS, IF AVAILABLE - R	efer Note 2	Refer to Broadv #BRD-57-6Al.	riew Research Corp. Rept
		NOZZLE TEMPERATURE AND PRESSURE, IF AVAI	LABLE - Refer	Note 2	Refer to STL Re "Explosive Pote	pt.#GM-TR-59-0000-00579 ntial."
ACTION OF THE STATE OF THE STAT	A VOTE THE CONTRACTOR	MOTES 1. GD/A complies with Division Manual, Engineer, 576-5,	' and with AF Safety	tions, policies, a Check List. For	and directives as outlined in AF A additional information contact M.	Manual 58-2, "1st Missile G. Rustin, Safety
	and the second s	2. Specific question	es should be referre	d to GD/A Chief Sa	afety Engineer, Plant 71, San Dieg	50.
MO-0:3~8800/178 3	(REV. 12-61)	ARD.	et mar et manuel seur englanne, ethiotologic in the <sub>e</sub> tremmer englander,		1. SECURITY CONSTRUCTION	9. REVISION NOT.

						4 7.127.38	170.2
		OCCUPAT:	IONAL HAZARDS	(AGENA D)			22 October 1962
5. P≅00	PROC	GRAM 206	eryryy mathalaith <u>am maryy my</u> mathalaith a s	E. PROGRAM REQUIPEMENT CODE NONE	7. SYSTEM CODE 206	IMSC AF04(695)-169	Original
Item No.	Test Code			EA AFFECTED AND RATION OF EFFECT	CCMPEN	SATING EQUIPMENT OR ACTION	YEST GOOS
UDMH	2	Toxic by inhalation; irritates eyes Flammable main in wide range of concen- trations	Storage area including the	and handling sites parts	Safety showers a Approved respira No smoking, no ma	atches, no open flames. ment to prevent accumulation of	static charge.
	3	Can be exploded by spark or open flame				flammable compound requiring car $v$ ing UDMH shall be approved by s	
	14	Hypergolic with some oxidants		·			
		Liquid - Highly corrosive, severe burns to skin and eyes.	Storage area including pac		Protective clothi	on safeguards required. ing (cover all parts of body). ection used shall be of the air	supply or self-contained
IRFNA		Vapor- Inhalation highly hazardous Vapors, internal	Storage areas	and as above	Safety showers av Eye wash fountair Water hose and ad Oxides of nitroge Oxygen resuscitat Sodium bicarbonat	lequate water supply en monitoring system fors se or sodium carbonate	eration
ALCOH W/CHL						oxic, requires careful handling approved by safety officer pri-	
I I MU=P!出 114	-a000, 197	(12-61)	Annual Control of the	April - East 10 Work Pro- one over a supplied to the	y of penils annually deflected to the control of th	1. SECUPITY GLASSIFICATION	F. REVISION NO.

			·		1: 360	JRKTM 7,438171717,75	200 program (12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 12 d. 1	2. 2255 17	0.3
	OCCUPAT	IONAL HAZARDS (	(AGENA D)					1. TATE 22 1	October 196
5. PECGPEV 1.7LE			1. PROGRAM: PEGUIREMENT CODE	7. SYSTEM CUDE	1	PROFESSION FROM SUPPLE		Ort	iginal
	ROGRAM 206		HONE	206	LMS	C AF C4(695)-	169	DATES	_
ic.	HAZARDOUS CONDITION		TECTED AND ON OF EFFECT		COMPENSAT	ING EQUIPMENT	OR ACTION	7817 7008	
Squibs	Minimum Hazard (small explosive charge)	Storage areas checkout area	s, launch pads, s.	Insure leads Use of non-s electricity.	ion measures - are shorted be parking tools f ing (especially	fore installa or installati	tion - handl on - protect	e carefull; ion agains	y. t static
Safe & Arm Initiator	Minimum Hazard (unless attached to destruct charge)	Storage areas checkout area	s, launch pads.						
M.D.F.	Minimum Hazard	Storage areas	, launch pads,		11		σ.		
Explosive Valve	Minimum Hazard (squib loaded)	Storage areas checkout area	, launch pads,		Ħ		· • #		
Starter Grain	Maximum Hazard	Storage areas	, launch pads, s.		11		, <b>u</b>		
Engine Igniter	Maximum Hazard	Storage areas	, launch pads,				· · ·		
Ullage Rocket	Maximum Hazard (deflagration)	checkout area	, launch pads, s. 120 lb thrust)		at .				
Retro Rocket	Maximum Hazard (brisant)	Storage areas checkout area (1 second - 4		The second secon	it it		. t1		
Shaped Charge	Maximum Hazard (high order detonation)	checkout area	, launch pads, s. enetrating 12-in.	1000	Ħ				
Optional Destruct	Maximum Hazard (high order detonation)	checkout area	, launch pads, s. enetrating 12-in.		<b>11</b>		<b>.</b>	<b>,</b>	
×0-P⊓K-3830,1S7 ร	(12-61) <b>URD</b>	y, o positivo ni marcini processa de la companya de la companya de la companya de la companya de la companya d	- X	L	3. SECU	STY CLASSIT GATION		9. PEVISION NO	1

-		OCCUP/	ATIONAL HAZARDS - MEDICAL	(s/v)		1. DECURITY DEASSIFTERFICK	2. *A**: 170.li 3. ************************************	196;
5. PRO	GRAM TITLE	ROGRAM 206		6. PROGRAM NEW TREMENT CODE NONE	7. SYSTEM CODE 206	Aerospace AF04(69	Original	
Item No.	Test	Report Date		ALA SERVICE SE	NAME OF REPORT		TEST CODE	
1	July	Sept 1961	Hydrazine Handling Manua Report R-3134 (	l, Published by Roc Unclassified)	ketdyne on Contra	ct AF 33(616)-6939, Proje	ct No. 3148, Task #30196	
2		Sept 1961	Nitrogen Tetroxide Handl Task #30196, Re	ing Manual, Publish	ed by Rocketdyne sified)	on Contract AF 33(616)-69	39, Project No. 3148,	
3 -	-	20 Aug 1962	Technical Manual Mainten Report R-3619 (	ance & Service Inst Confidential)	ructions SE-5-2 P	ropulsion System, Publish	ed by Rocketdyne,	
				• .				
	-			•				
The state of the s								
16   Pi-U-Pi-IK	-589 <b>0, FS</b> 7	(12-61)	NRD			:. SECURITY CLASSIFICATION	s. Rev. Stun NC.	OUTURN HARPINE

			SUMMARY OF	FREQUENCY HITHLIZATION (ATI	AS-AC	gena)	T. NEGURITA	SEASSIFICATEIN		100 1 122 October 196 1 1000 1000 190
:		PROGRA	M 206	6. PROGRAM REGUIREMENT NONE				Aerospace AF04(695)-169		- 0 t May 1962
TEM	TEST CODE	FREQUENCY	EMISSION CHARACTERISTICS	PUPPOSE PROTECTION PEGGINED -		EST. TIME OF USAGE		\$950.00 \\ Section of the sect		
1	A,B C,F G	416	VHF/FM	Furnishes signal to operate missile destruct system	±	0.5 Me	8 h max	T + 5m	Monitor to pr with operatio	event interference ns
2	A,B C,F G	249.9	PAM/ FM/FM	Atlas telemetry transmitter	<u> </u> +	0.5 Ma	11	T + 10m	H	if .
3	J	2300+0.22	CW	GE Mark II airborne rate beacon for mis- sile guidance		10.0 Me	4 h max	T + 5m		•
4	A,B C,F G,H	8850 <u>+</u> 20	Pulse	GE Mark II airborne pulse beacon for mis- sile guidance	<u>+</u>	30.0 Me	11.	T + 5m		o .
5	A,B C,F G,H	1150 <u>+</u> 0.11	CW ·	GE Mark II ground guidance tracker (rate subsystem)		10.0 Me	11 .	T + 5m min	z*	
6	A,B C,F G,H	8935 <u>+</u> 1.0	Pulse	GE Mark II ground guidance tracker (position subsystem)	+	10.0 Me		<b>T</b> + 5m		
7	A,B C,E G	231.4	VHF/ and FM/FM	Agena telemetry trans- mitter.	+	2.0 Mc	бh	<b>T</b> + 10m	i.	
	The state of the s				Manager of the Control of the Contro					
	Samuel Comments of the Comment			*Note: Non-IRIG standard						

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Action Agency: PMP

			SUMMARY OF	FREQUENCY UTILIZATION (GE/AS	SPD)	II, SECUPITY	CEASELFILE TION	:	2. **** 130.1 3. ***** 22 October 1962
5. PRO	GRAM TITLE	PROGRAM	206	PROGRAM ALL PRIMERS CO	0E 7. SYSTEM COOK 206		ace AF04(		4. *EPLACES **SELED 190.1
IC.	TEST	12.	EMISSION	PURPOSE	PROTECTION REQUIRED	EST. TIME	OF USAGE		
NO.	CODE	FREQUENCY (MC)	CHARACTERISTICS	1.01.035	PROTECTION REQUIRED	PRE-OP.	LAUNCH	SPECIAL	MONITORING REQUESTS
8	A,B C,G	248.6	VHF/ PAM/ FM/FM	SV Channel I telemetry transmitter	<u>+</u> 2 Mc	бh max	T + 10m	Monitor to pr with operation	event interference ns
9 .	A,B, C,E, G	258.5	VHF/ PAM/ FM/FM	SV Channel II telemetry transmitter	<u>+</u> 2 Mc	6 h max	T + 10m	11	II
10	A,B E,G	2850	Pulse	Verlort tracking radar (S-band command trans- mitter)	<u>+</u> 10 Me	4 h max	T + 5m	н	ıı .
11	A,B D,E	2920	Pulse	S-band beacon trans- ponder for orbit tracking	<u>+</u> 10 Me	4 h max	11	11	n'
12	A,B C,E G	400.384	CW . 10F2	Doppler beacon trans- ponder	<u>+</u> 3 Mc	4 h max	σ.	· n	<b>"</b>
13	A,B, D,E, G	375.360	CW 10F2	Ground-based doppler transmitter/receiver and extractor	<u>+</u> 3 Mc	4 h max	11	11	"
	A, B, C, D, G	3-30	SSB	Voice and TTY tracking data network	To be furnished	4 h max	T-4 h (As re- quired for the		
							mission)		
IND-PM	-8800/199	9 (12-61)		The state of the s		1. SECURITY	CLASSIFICATION		. REVISION NO.
18			(H) A	ction Agency: FMR				,	1

_00.000.000	and a seek the lines		C. N. L. C. C. C. C. C. C. C. C. C. C. C. C. C.	FREQUENCY	UT LI LZAT LON	, , , , , , , , , , , , , , , , , , ,	1. SECURT	CLASS.F.CAFION		2. °43E 122.2
	•		SUAMARY OF	FREHUENCY !						3. DATE 22 October 1962
	OGRAM TITLE	PROGRA			6. PROGRAM REQUIREMENT CO	205	ì	ace AFO4(		Original Original
IO.	TEST	FREQUENCY	EMISSION	14,	PUPPOSE	PROFECTION PLOURTS	EST. TIV	E OF USAGE	17	MONIFORING REQUESTS
NO.	CODE	PREVOENCE	EMISSION CHARACTERISTICS		F01.03.	F10150110111111111111111111111111111111	PRE-OP.	LAUNCH	3780146	MONTH ORING REGUES (S
15	ABCE GI	141.54 Mc	VHF-AM	Backup transmi	command tter (BUC)	± 2 Mc	4 h	None	Monitor to pr	event interference
16	ABCEG	242.0 Mc*	vhf/fm/fm		nel III telem- ansmitter	<u>+</u> 2 Mc	4 h	None		
17	ABCEG	235.0 Mc	Pulse	SV beaco	on	<u>+</u> 2 Me	4 h	None	11	
									*Pending Appr	oval
								-		
1 <b>KDP1d</b> 19	R-8800/199	(12-61)	<b>NRD</b>	Action A	gency: PMR		1. SECURITY	CLASSIFICATION		S. REVISION NO.

		GENERAL METRI	C DATA		1, ord with deads area for	2. PAGE 217 3. PAYS 22 October 196 4. PERLACES PAGE 210
5. PRO	GRAM T. TLE	PROGRAM 206	6. PROGRAM REJUIREMENT CODE NONE	7. SYS*EM CODE 206	Aerospace AF04(695)-169	PATED 1 May 1962
IG. I TEM NO.	TEST CODE	COORDINATE	SYSTEM PREFERRED, POINT	OF GRIGIN, NOTES, RE	MARKS AND OTHER BENERAL METRIC CATA	
			DEI	TINITIONS		
ı	A	Earth Model			•	
		Department of Defense World Geod	letic System, 1960.	(DODWGŠ 1960)	And the second second	
2	А	Coordinate Systems (Right-hand ortho	gonal coordinate sy	stem).		
3	A	Launch Site Fixed				
		Origin - The point where the geometry pins intersects the geoid.	odetic vertical whic	h bisects the line	e connecting the centers of the la	unch stand lock
egazona anger sérebba i padiffiques pange		$\underline{u}$ , $v$ , $w$ <u>Coordinates</u> - $\underline{u}$ componer origin and the vertical plane in in the tangent plane; $\underline{w}$ componer	which the venicle	initially pitches:	ection of the plane tangent to the $\frac{v}{v}$ component is positive to the lice vertical.	geoid at the eft of the <u>u</u> axis
+	A	Earth Centered Inertial			•	
		Origin - The center of the earth	1.			
A CONTRACTOR OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON	energy property and property and a second pr	x, y, z Coordinates - x componen intersects the equator and 90 de	t intersects the equ g east longitude at	uator and the Gree liftoff; <u>z</u> compon	nwich Meridian at liftoff $(t \approx 0)$ ; ent passes through north pole.	y component
	A	Launch Azimuth				•
		The azimuth of the initial pitch	plane.			
5	A	Launcher Orientation				
- Constitution		The azimuth of the vehicle pitch	plane after vehicl	e erection on the	launch pad and prior to vehicle l	iftoff.
7	A	Trajectory Azimuth				
	<u> </u>	- injection	ertical plane at th	e launcher origin	which contains the satellite at t	
ND⊷PMR- O	8800/105 (	(KD)			. ESCOPION CLASSIFICATION	9. 98VISION NO.

		GENERAL METRI	C DATA		1. SECURITY CLASSIFICATION	2. PAGE 210 ] 3. DATE 22 October 1962 4. REPLACES PAGE(S)
5. PRO	GRAM TITLE	PROGRAM 206	6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE 206	a. contractor/contract number Aerospace AF04(695)-169	210.1 DATED 1 May 1962
IO. ITEM NO.	TEST CODE	COORDINATE	SYSTEM PREFERRED, POINT	OF ORIGIN, NOTES, REMAI	RKS AND OTHER GENERAL METRIC DATA	
8	A	Accuracy				
		Accuracy is specified as the different a one-sigma probability (0.68).	ce between true and	computed values and	will be requested within the sta	ated limits with
9	A	Data Reduction				
		Estimates of accuracy will be provide for smoothing and for establishing ac proportional estimates of random, sys will correlate the accuracies of the A qualitative explanatory statement i to data inaccuracies.	curacy estimates wil tematic, and other o processed data with	ll be provided. A be errors will be inclu the applicable data	reakdown of the estimate of total ded. Also a tabulation is to be accuracy requirements specified	l error into submitted which in this document.
10	A	Data Units				
		Reduced position and velocity data wi and locations in latitude and longitu				
11	A	Smoothing Intervals				
		Accuracy requirements are stated in t from discrete function times should b				end point smoothing
12	A	Editing of Smoothed Data				
Annyani (Anna Amerika)		When smoothing is applied to the redu as needed to a maximum of 25 percent A statement explaining all editing is	of the data points o			
13	A	Timing				
		Correlation will be 2 milliseconds du limit of PMR acquired data unless ind				een launch and the
1180_000	-0001/106	(REV. 3-61)			1. SECURITY CLASSIFICATION	9. REVISION NO.

Action Agency: PMR

			METF	IC LAUNCH DATA	en en en en en en en en en en en en en e	I. SECURITY CLASSIFICATION	2. PAGE 211 3. DATE 22 October 1969 4. PEPLACES PAGE(3) 211			
5. 95	ROGRAM TITL	PROGRAM	1 206	5. PI	ROGRAM REQUIPEMENT CODE	7. SYSTEM COU! 206		Aerospace AF04(695)-169	DATED 1 May 1962	
IO. ITEM NO.	TEST CODE	DATA RECUIRED	I 3. INTERVAL (RANGE -ALT I TUDE-T IME)	DATA POINTS/SEC	Printing Said Company and Company States of	JCED DATA ACCUR-	ACY E CLASS III	PURFOSE AND REMARKS		
1	,A	Position	Liftoff to T+15 seconds (2000 ft altitude)	4	Section (Control of Control ft	5 ft	a. Atlas trajectory determi			
2	A	Velocity	Same as above	4	Consistent	with position	accuracy	NOTE:  1. No real time requirement: 2. Position data required in curvilinear, and cartesian	n polar,	
3	A	Position	T+15 seconds to Atlas/Agena separation	10		+10 ft at T+15 to ±2000 ft at separation	10 ft	3. Velocity data required in cartesian coordinates.	n curvilinear and	
<b>Ļ</b>	A	Velocity	Same as above	10	Consistent	with position	n accuracy			
1110				· · ·				I. SECURITY CLASSIFICATION	5. PEVISION NO.	
180-P. 22	#K~660G / TC	Æ (RE√. 3-GI)	Act.	ion Agency:	PMR			1. JOSEPH PROPERTY OF THE PROP	1	

on Division		100 A 924	ME :	TRIC LAUNCH DAT	4 (VAFB REQU	•	THE COMMENT OF STREET, THE SERVICES	- EDIGRITY CLASS FLOATER	2. +408 211,1 3. 557,22 October 196 4. PEPLALES HATELS) 211.1
5. PROC	REW TITLE	PROGRAM 20	06	6. ?	NONE	1. 9YSTEM CODE 2	206	Aerospace AFO4(695) - 169	CATEC 1 May 1962
TE'.: NO.	TEST CODE	DATA REQUIRED	IN FERVAL (RANGE -AUTHTUDE-TIME)	DATA POINTS/SEC	15. PEG - CLASS 1	CES DATA ACCUR.	CLASS III	Puppose AND	PEMAPKS
erensystemissässässästen enementen medelle sälvä ja varitymenyen	Α.	Position	Liftoff to Agena 1st burn ignition plus 10 seconds	1/4		1000 ft	500 ft	a. Atlas/Agena gross malfur     b. Determination of ascent     c. Aid in determination of angles for Kodiak	trajectory
e de la companya de l								NOTE: For the near real time requested data must a SSB/RTTY to STC, Summarte of one per four	be relayed via nyvale at a sampling
disk toppoment in the side of the second operator of the second operators.									
	v entrakteren jaja dan entrem jajak kananan jaja jajak kananan jajak jajak kananan jajak jajak kananan jajak j								
							•		
*D-P:4R-	520c / I CE	(REV. 3-61)		Action Agency	: FMR			1. SECURITY CLASSIFICATION	9. REVISION NO.

шсуңемети	·		ME TR I (	1. SECURITY CLASSIFICATION	2. PAGE 212  3. DATE 22 October 1962 4. REPLACES PAGE(S) 212				
5. PRO	GRAM FITLE	PROGRAM 20	6		NONE	7. SYSTEM CODE 206		Aerospace AFO4(695)-169	DATED 1 May 1962
ITEM	ri. TEST CODE	TEL CATA REDUIRED	INTERVAL (RANCE-AUTITUDE-TIME)	DATA POINTS/SEC	15. RE CLASS I	DUCED DATA ACCU	CLASS III	PURPOSE ANI	D REMARKS
1	A	Position	Atlas/Agena separation to Agena 1st burn ignition plus 30 seconds	īţ		2000 ft	1000 ft	a. Agena D gross malfunction     b. Determination of orbit in     c. Determination in near reacquisition angles for N	injection conditions.
3	A A	Velocity Position *	Same as above  lst burn ignition plus 30 seconds to lst burn cut- off plus 3 min- utes	1/4	Consistent	with position 1000 ft	n data 500 ft	d. The position data will and curvilinear coordinate.  The velocity will be recoordinates only.	e required in polar
4	A	Velocity	Same as above	1/4	Consistent	rith position	i data	*NOTE: For the near real ti polar position data SSB/RTTY to STC, Sur sampling rate of one	must be relayed via myvale at a

Action Agency: PMR

Approved for Release: 2024/01/30 C05099025

		dar			1. SECURITY CLASSIFICATION	2. PAGE 215
	٠	OTHER MET	RIC DATA (AGERA D)			3. DATE 22 October 1962 4. REPLACES PAGE(S) 215
S. PRO	GRAM TITLE	PROGRAM 206	6. PROCESS RECEIPEMENT CODE	7. SYSTEM COME 206	Aerospace AFO4(695)-169	DATED 1 May 1962
ITEM NO.	TEST CODE	12.	DATA REQUIRED, INTERVAL.	DATA POINTS/SEC, ACC	RACY. PURPOSE AND REMARKS	
1	A	Analog recordings of radar AGC and The recordings are to be at 10 mm/s of radar tracking.				o determine adequacy
2	A	Range safety plotting board charts pips to be used for quick-look anal		lots are to be <u>x</u> v	s y and x vs h with 8-second timi	ng
3	A	Telemetry antenna position (azimuth and Agena D re-entry trajectory det				as an aid to orbit
4	A	Radar station operators logs are re-	quired with all radar	data.		
5	A	Recording of Doppler receiver output payload separation).	t (frequency count vs	time) are require	ed from each downrange station. (	Takeoff to Agena/
			·			
	andread (Calendary)					
	į			-		
	verige of which designs the second se					• :
1 <b>NO-PHR-</b> 25	-6800/109 I	(REV. 3-61) Action Ag	ency: PMR		t. SECURITY CLASSIFICATION	9. REVISION NO.

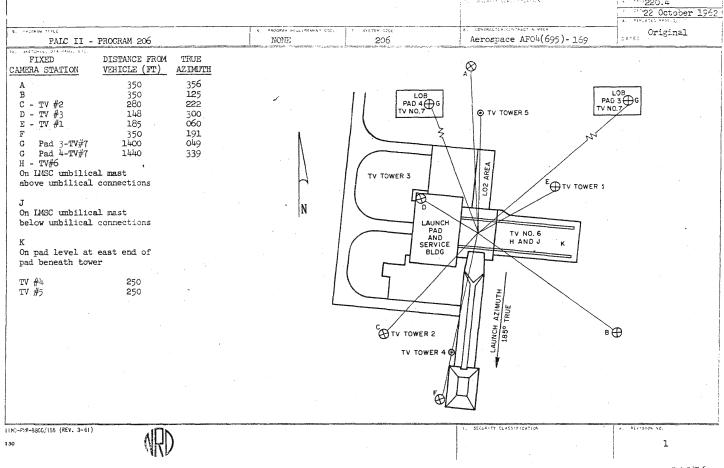
Parameter 1	engrammenté sétés	177.0° 1.18					1. SECURITY CLASSIFICATION	2: PAGE 220
•				ENGINFERING	SEQUENTIAL DATA			3. DATEGO 0-4-1- 75/0
<u> </u>								4. REPLACES PAGE(S) 220
5. P	90GRAM TITE		** **		6. PROGRAM REQUIREMENT CODE	7. system code 206	B. CONTRACTOR/CONTRACT NUMBER Aerospace AF04(595)-169	i
	11.	PALC	II - PROC	RAM 206	NONE	COD	Aerospace Arc4(09))-109	DATED 1 May 1962
ITFM NO.	TEST	SIZE MM	FILM	INTERVAL (RANGE-ALTITUDE-TIME)	ITEM TO BE VIEW	D OR COVERED	PURPOSE AND RE	MARKS
1	A	16	Color	-2M to +1M		2/3 of frame; Pic- nclude launch pad & rvice area per second	General surveillance of laund supporting facilities, and ve Location: Camera Pad "G" Azimuth: Pad 3 - 049°CT Pad 4 - 339°CT	
2	<b>1</b> 1	T T T T T T T T T T T T T T T T T T T	n	пп	Coverage: Booster & upper 1/8 of fi Camera Speed: 24 frames p Exposure: Booster skin	rame	General surveillance of launc upper stage; primarily to pr surveillance capability durin period and tanking operations Location: Camera Pad "A" Azimuth: 356°T	ovide long-run g pre-launch
3	**	ii	11	11 11	Same as Item 2		Same as Item 2 except as foll Location: Camera Pad "B" Azimuth: 125°T	ows:
4	***	29	ŧr	ft 11	Same as Item 2		Same as Item 2 except as foll Location: Camera Pad "C" Azimuth: 222°T	ows:
5	<b>A</b>	16	Color	-30S to +20S	Coverage: Booster & upper lower 7/8 of ft Camera Speed: 96 frames I Exposure: Booster skin	ame	High-speed over-all surveilla of all systems in relation to ignition and liftoff (F.C.) Location: Camera Pad "A" Azimuth: 356°T	one another during
6	***	**	28	11 11	Same as Item 5		Same as Item 5 except as foll Location: Camera Pad "B" Azimuth: 125°T	.ows:
L	<u> </u>	1	<u> </u>				gyggttimathin a yngagt flagynnige that mindystratt de minydynynyn dafanning yn ysgafyllagynni	,
1 I ND-F 1 26	PHR-8500/1	110 (REV.	12-61)	ADD Act:	ion Agency: 1369th Photo S	quadron	1. SECURITY CLASSIFICATION	9. REVISION NO.
				<b>41/</b> V			1	-
					Approved for Release	. 202 <i>4/</i> 01/30 C05090	a025	

		***				1. TECHNIST CLASSIF, CAR GA	2. PAGE 226 .1
				ENGINEERIN	3 SEQUENTIAL DATA		3. DATE 22 October 1962
5.	PRO HAW TIT	PALC 1	II - PROGR		6. Heritan Moureson Could 1. System cost	Aerospace AFO4(695)-169	Original Original
ETEM NO.	TEST CODE	SIZE MY	FILM	INTERVAL (SYNGE-ALTHUDE-TIME)	FEET TO BE WIFTED CO COVERS.	POPPOSE AND RE	MARKS .
7	A	16	Color	-30S to +20S	Coverage: Same as Item 5	Same as Item 5 except as foll Location: Camera Pad "C" Azimuth: 222°T	ows:
8	A	16	Color	-5S to +10S	Coverage: Booster engine section from top of flame deflector to vernier engines to fill frame Camera Speed: 400 frames per second Exposure: ½ stop under booster skin	High-speed study & verification release action; LOX and fuel action and booster electrical disconnect (F.C.) Location: Camera Pad "C" Azimuth: 222°T	rise-off disconnect
9	11	**	## ## ## ## ## ## ## ## ## ## ## ## ##	11 +1	Same as Item 8	Same as Item 8 except as follo Location: Camera Pad "D" Azimuth: 300°T	ws:
10	C1	es	\$1	21 (1	Same as Item 8	Same as Item 8 except as follo Location: Camera Pad "K" Azimuth: 095°T	ws:
111	A	70	Color	-58 to +108	Coverage: Booster & upper stage to fill approximately lower 1/3 of frame at liftoff, and to cover first three full lengths of rise; Use 5-in. format to overlap Item 12.  Camera Speed: 20 frames per second Exposure: Booster skin	High-resolution surveillance of during and immediately following and liftoff (F.C.) Location: Camera Pad "C" Azimuth: 222°T	
11HD-1	PMR-8600/	IIO (REV.	12-61)	(R) Act	ion Agency: 1369th Photo Squadron	1. SECURITY CLASSIFICATION	9. REVISION NO.

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	gregi anceribility (comm			FNGINEERING	SEQUENCIAL DATA	2. PAGE 220.2  3. BATE 22 October 1962 4. PEPLICES PAGES 1
>. *	90: 9x4 *17	PAI	CII - PR	rogram 206	6 PROMAN AL DUI PENENT GODE 1. SYSTEM CODE NONE 206	Aerospace AF04(695)-169 Original
10. 1751 10.	TEST CODE	SIZE VM	FILM	INTERVAL  (RANGE-ALTITUDE-TIME)	ITEM TO BE VIEWED OR COVERED	PUPPOSE AND REMARKS.
12	A	70	Color	-58 to +158	Coverage: Booster & upper stage to fill approximately lower 1/3 of frame at 3 full lengths after liftoff and to provide coverage during travel from plus 3 to plus 6 full lengths of rise; Use 5-in format overlap Item 11.  Camera Speed: 20 frames per second Exposure: Booster skin	High-resolution surveillance of all systems during the period immediately following liftoff (F.C.)  Location: Camera Pad "C" Azimuth: 222°T
13	A	35	Color	-5S to LOV	Coverage: Vehicle to fill frame at liftoff Camera Speed: 96 frames per second Exposure: Booster after liftoff	Evaluation of flight performance (T.C.) Location: Tracking Site 1
14	"	11	\$ P	11 11	Same as Item 13	Same as Item 13 except as follows: Location: Tracking Site 2
15	11	tr	**	н с н с	Same as Item 13	Same as Item 13 except as follows: Location: Tracking Site 3
16	п	u	n	h n	Coverage: Booster engine section to fill frame at liftoff Camera Speed: 96 frames per second Exposure: Booster engine section after liftoff	Evaluation of engine flight performance and booster area study (T.C.) Location: Tracking Site 1
17	.,	n		19 11	Same as Item 16	Same as Item 16 except as follows: Location: Tracking Site 2
18	11	n	## ### ###############################	17 17	Same as Item 16	Same as Item 16 except as follows: Location: Tracking Site 3
11ND-F	PHR-8600/	IIO (REY.	12-61)	Actio	n Agency: 1369th Photo Squadron	1. SECURITY CLASSIFICATION 9. REVISION NO.

minimum manadir sec., or shrows, assessor manadir manadir section, section, and that	ENGINEERING SEQUE	NTIA1 CATA		1. SELEPITY SEASSIFICATION	2. PASE 220.5
	2.00.000.000			<u> </u>	a. PEPLACES PAGE(S)
PAIC II - P	ROGRAM 206	NONE	3757EM 105 205	Aerospace AF04(695)-169	Original
FIEM  FOR SEE WE TYPE	INTERVAL (RANGE-ALTITUDE-TIME)	ITEV TO SE VISS	P0 09 00V5850	PUFFOSE AND P	EMARKS:
	Ten minut  2. Items 2, footage fi  3. Azimuth b  4. Abbreviat  5. Request w	es running time to be 3, & 4 to be provided rom these cameras nee earings and distances ions: F.C Fixed Common terms of Ektachrome Common terms are the common terms of the common term	e retained for committe I for DPL tankings as w ad not be processed unl of camera pads, where amera; T.C Tracking	T-15M to T-2 as directed by run of each camera during law rell as launches. Tanking and less so requested by test conductive, are approximate.  Camera: LOV - Limit of visibing whenever light conditions per runs 13 thru 18.	unch. Leunch ctor.
11ND-PMR-8500/110 (REV. 12-61) 129	Action Age	ency: 1369th Photo S	quadron	1. SECURITY CLASSIFICATION	a. REVISION NO.



	u. s				231.T-2000		TELEMETH'	V DATE (ATL	AS)				CLAUSIFIC				2. Part 230 3. Cart 22 October 1962 4. REPLACES PASSICE 230
5. 749.	TRAM TITLE		RAM 3	 204	ann, miley ann Miller I el			s. PRUGRAM 42	CULREMENT COTE	7. SYSTEM (1.07 206	į	Aerospa				169	047E0 1 May 1962
ITEM	TEST	LINK FREQ -MC	- 1.		NNE L DEV	NO. OF	RATE. MEASURING		ECORDING INT		DATA ACCURACY FINAL-±%		CORDINGS		CONS	COM-	PURPÓSE AND REMARKS
1 2 3 4 5 6 7 8	A,B C,F G	а түре 249.9 РАМ/ FM/FM	1 9 10 11 12 13 14	400 3,900 5,440 17,350 10,500 14,500 22,000 30,000	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5		RPS, BPS Continuous " " " " " " " " " " " " " " " " " " "	c.ess 1 T-1 m to T+6 m	CLASS II	CLASS III	5.0		A 5.5.		PRES	PUT.	Gross missile systems performance information. Calibration signals supplied by range user. Recording log should accompany the tape. Use original magnetic tape. 17kc speedlock, amplitude modulated +50%, with IRIG B timing and voice annotation to be included. Telemetry data to be multiplexed with wow and flutter compensation. Record at 30 or 60 in/sec. Require signal strength to be recorded on tape as well as on Sanborn recorder.  Original tapes from GD/A pad trailer and Navy required.
11ND-PM	R-8300/111	I (REV. 3-6)	)		NR	Ac	tion Agenc	y: PMR & 6	595th ATW	mentalaran (r. 1. 6 met) Abbourg er 1949 til og sam Abbusskebiskol		I. SECURITY	CLASSIF	CATION			9. REVISION NO.

Approved for Release: 2024/01/30 C05099025

							TELEMETR	y data (AGE	NA D)			. SECUR	ITY CLAS	SSIFICATI	ion			2. PA 3. CA 4. PE	230.1 22 October 1962 PLACES PAGE(S) 230.1
S. PROG	RAM TITLE							6. PROGRAM REG		7. SYSTEM CODE		erost				1-16			1 May 1962
10.	11.	12.	GRAM		NNEL	-	14.		CORDING INT		16.		EQUIRE	D IN	HE21	Tive		18.	
ITEM NO.	TEST	LINK FREQ -MC 3 TYPE	NO.	FREQ,	DEV	NO. OF SEG	RATE, MEASURING -RPS, BPS	(TIME,	POSITION OR FL CLASS (1	(GHT PHASE)	ACCURACY FINAL - ± %	TAPE	RECOPO		¢3.	DONS PRES	COM+ PUT,	PURPO	SE AND REMARKS.
1	A	231.4 PAM/ FM/FM	7 8 9	2.3 3.0 3.9	7.5 7.5 7.5	520		From T-2 m to Agena/SV separation	Same as	Same as Class II	5	х		x				Basic Age will be r Channels	performance data. ena D equipment monitored by 7,8,9,11,14,15
		en jungensydge film kan kan kan kan kan kan kan kan kan kan	11 14 15 16	7.35 22.0 30.0 40.0	7.5 7.5 7.5 7.5	60 60	5 rps 5 rps				and the state of t							nels show	Selected chan- ald be displayed time determi- event times.
2	A	Same a	is ab	ove	•			,	From asce until los of signal from down range tra ing ship	s -			Philips of the Control of the Contro						
	T. T. T. T. T. T. T. T. T. T. T. T. T. T					Andrews of the Control of the Contro		٠.					The second secon		de la colonida de la colonida de la colonida de la colonida de la colonida de la colonida de la colonida de la				
			namy to tangent foliated may be foliated.		Angagagalithii njengalithii dengarithii da da da da da da da da da da da da da				The state of the s		ancientario de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de			of the females of the same of	dialegistaphia estimante de la liberta de la liberta de la liberta de la liberta de la liberta de la liberta d				
	en-devenous de description de la constante de		and the state of t		en demonstration de la constitución de la constituc	AND AND AND AND AND AND AND AND AND AND		-				THE REAL PROPERTY AND ADDRESS OF THE PROPERTY	· · · · · · · · · · · · · · · · · · ·	-	temperate de part de parte de constitución de	Transmitter Communication Comm			
1 1 ND-P46	R-8800/111	I (REV. 3-51	)						was a second and a second a	SEDECIMENTAL TOPOGRAM AND AND AND AND AND AND AND AND AND AND		1. SECUP	RITY CLAS	SSIF:CA*	21			· 9. RE	VISION NO.
132					巛	) A	ction Agen	cy: PMR											1

[-				Cancillo José de III		<del>,</del>	TELEMETON	DATA (SATE	LLITE VEHICE	E, XMTR NO.	1	. SECU	PITY CLA	1031F104	*165	acretiklelij?		**************************************	2. PASE 3. CATE 2	200 2 Octobe	.2 er 1962
							TELEMETRI	LAUN	CH)		•		RACTOR/C						A. PEPLAS	LI PASE(1). (	30.2
5. PRO	GRAM TITLE	PROG	DAM	205				6. PHOGRAM RE	DIREMENT CODE 7.	575 TEN CODE 205							59 -		DATES	l May 19	62
12.	111.	T : 2.	13.	4.3	NNEL		TA. RATE.	12. B3	CORDING INTERV	At.	TE. DATA	17. p	pade Enuis	ED 11	. EE.	710	Ξ	TE .	S-Amountain "Service service	Market American	***************************************
NET1	TEST	LINK FREQ -MC	۸۵.	FREQ.	D€V ± ≈	NO. OF SEG	MEASURING -RPS, BPS	CLASS I	POSITION OR FLIGHT	CLASS (i!	ACCURACY FINAL + %	7275	P5009	20710		CCNS PRES	con-		PUPPOSE	AND PEVA	e k S
-	<del> </del>	248.6 PAM/ FM/FM and FM/FM	8	3.0	<del>                                     </del>	32.0	Cont.	CLASS	From early ascent until loss of signal at down- range TLM	CLASS VI.	Best Availabl (Desire +5%)	х		х				sate	vides d ellite Cormance	<i>r</i> ehicle	
2	Pro-mary circle (distribution)		9	3.9			Cont.		ship	en chianten de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de		X		x							
3 4			10		7.5		Cont.					X		Х							
5			12	10.5			Cont.					х		х							
6			13	14.5	7.5		Cont.					Х		Х.							
7			14	22.0	7.5		Cont.					X		X							
8			15 16	30.0	7.5	30 30	5 rps 5 rps					X		X X							
10			17	52.5	1	"ر	Cont.					х		х							
					Paramananan asay www.paramanan.unii ayahibanaya ayamiii ababahiniiban anna																architecture feet annual
11ND-PHR 133	1-8800/111	(REV. 3-51	) .	***************************************	<b>侧</b>	)	Action Age	ncy: PMR	er uu actar vaa valuureeleen see 2 valorii Ooliiseliidiila.			. SECU	RITY CL	ASSIFIC	AT12N				S. REVISI	l ·	

Approved for Release: 2024/01/30 C05099025

	egwyys; dC sidenbar	and was concurred.	uxuxudxi'			E-100-48	TELEMETRY	DATA (SATEL	LITE VEHI	CLE, XMUR #1,	LAUICH)	i. SECu	BITY CL	ASSIFICA	T105	nacio Minuse en	- CONTRACTOR CONTRACTO		220-3 3 57722 October 1962 4 445-3614-1230-3
5. PEG	RAM TIFLE	PROC	RAM	 206				s. Program res	NE	7. 845TEM 0001 206		a. com Aeros	pace	AF0	4(69)	5)-1	.69	,	CATE: 1 May 1962
TO.	TEST	LINK FREQ -MC	:3.	FREQ.	NNE L DEV	NO. OF	RATE, MEASURING	(TIME.	CORDING INT POSITION OR FL	GAT PHASE!	DATA ACCURACY FINAL-± %		2600	PCINSS 5.8.		ct/s	COV- PuT.	16.	PUPPOSE AND PEMAPKS
NO.	A,B,C E,G,I	4 TYPE 258.5	No.	-40	-± *.	SEG	-RPS, BPS	CLASS I	CLASS !!	CLASS 111			,						
1		FM/FM	A	22	15		Cont.		From lifto to inject:		Best Available (Desire <u>+</u> 5%)	X	the residence of the second se	X	X		The state of the s		Transmission of vibration data on Channels A and C, clock time on E, and monitor of BUC on
2		FM/FM	С	40	15		Cont.		#			X.		Х	Х				Channel 13 during powered flight.
3	ĺ	FM/FM	Ε	70	15		Cont.		"			Х		х	Х				
	Action Property Control	PAM/ FM/FM	13	14.5	7.5	30	2.5 rps	٠.	11			х		Х	х			Andreas Later and Constitution of the Constitu	
					-		.*											7	
										-									
11110 00	2506/112	(REY. 3-61)				<u></u>					<u> L</u>	n. SECL	ZRITY CI	ASSIFIC	/017A			<u>L</u>	S. MENISICA NC.
11ND-H40 134	-5000/111	(FEY. 3-51)	,			)	Action A	gency: PMM											1
					1 1 1		Appro	oved for Re	elease: 20	024/01/30 CO	5099025								•

minnoccatic	aluc k X		Access (			1000 97 X 1014 1112	TELEMETRY	DATA (SATEL	LITE VEHIC	CLE, XMTR #1,	1		PITY CL					2. PAGE 220.4 2. EATE 22 October 1960 4. PEPLACE PAGE(S) 230.4
5. PRO:	RAM TITLE	PRO	OGRAN	 205				6. PROGRAM 753	CIRCUENT CODE	206	F		pace				169	carec 1 May 1962
IC.	II. TEST	LINK FREQ -MC	13.	CHA	NNEL	NO. OF	RATE, MEASURING	15. RE (TINE.	COPDING INT	ERVAL SHT PHASE)	DATA ACCURACY			11535		co.s	C074	PURPOSE AND PEMARKS
NO.	CODE	& TYPE	\c.	-KC	-± %	SEG	-RPS, SPS	CLASS	CLASS	CLASS [][	FINAL-#%	TAPE	1	£.5.	ésc	P#ES	PUT.	Provides data on
1	C,G,E	258.5 PAM/FM, FM & FM/FM	, 7	2.3	7.5		Cont.		On Command		Best Available (Desire +8%)	X	X	Х		General de Constante de Constan		satellite vehicle performance.
2	11	.,	8	3.0	1:		Çont.		,,		. "	х	Х	Х				
3	"	"	9	3.9	11		Cont.		II.		"	х	х	Х				
4	"	"	10	5.4	"	90	1/18		11 -		"	Х		Х		-		
5	l "	11	11	7.35	"		Cont.		11		"	Х	х	Х				At command, 16 minutes of data recorded during
6	"	"	12	10.5	"	30	2.5		"		"	Х		Х				each Off period will be played back at 4 times
7	"	"	13	14.5			Cont.		11			Х	Х	X		1		recording speed.
8	"	" .	14	22	7.5	30	5		"		±8%	Х		Х				
9*	"	"	A	22	15%		Cont.		"		5%	Х	Х	Х				
10*	. "		С	40	15%		Cont.				5%	Х	Х	Х				
11*	"	n .	Е	70	15%		Cont.		. "		5%	Х	Х	X				
12*		"	13	14.5	7.5		2.5		"		5%	Х		Х				
											- Verification and representatio							*These items can be transmitted real time when playback of other items not desired.
	-8300/111	(REY. 3-5)	)			<u> </u>		(	1 . A COL		<u> </u>	. SEC	PITY CL	4551710	ATION		<u> </u>	9. SEVISION NO.
35					(\\		·	gency: 659		024/01/30 C0								1 27778

	GRAM TITLE			Adv. al-management			TELEMETRY	ORBIT	LITE VEHICLE	, XMTR #2		1. ELGU		ASSIFIC					2 PAG 3. CAS 4. PEP	E 22 00	230,5 tober 230	19 <i>f</i> •5
5. 240	GRAM TITLE	PRO	GRAM	206				1	EMC	206	I.A	eros	pace	AFO!	÷ <b>(</b> 695	5)-1	69		DATES	l Ma	y 1962	2
D. TTEM	II. TEST	LINK FREQ -MC	13.	CHA	NNEL	10, OF	RATE, MEASURING	15. 0	ECORDING INTERV	AL.	DATA ACCURACY	F	E 351F	ED 1	, PFA	CO's	/ε	10.	PURPCS	E AND	REMARKS	
NO.	. CODE	% TYPE	NO.	-KC	- ± %	SES	-RPS, BPS	CLASS I	CL435 I!	CLASS III	FINAL-# 75	7425	PEN	5.5.	920	PRES	PUT.					
1	C,G,E	248.6 PAM/ FM/FM	7	2.3	7.5		Cont.		On Command		5%	Х	Х	Х					Provide data fo ance in	or SV	perfor	"m ~
2 .	- 11	,, :	8	3.0	11		"		11		"	X	х	х								
3	"	n	9	3.9	11				"		11	х	Х	х	-							
4	"		10	5.4	**	90	1/18 rps		11	-	"	х		х								
5	"	"	11	7.35	"		Cont.		11		"	х	x	х								
5	n n	"	12	10.5	"	30	2.5 rps		. "		. 11	х		х								
7 7	" .	"	13 13	14.5	"	-	Cont.		m ,			х	х	х		-						
3	, ,	"	14	22	1t '	30	5 rps		tt .		11	х		х								
9	"	В	15	30	"	30	2.5 rps		п		"	х		х								
.0	. "	" .	16	40	"	30	5 rps		n ·			х		х	ļ							
.1	"	"	17	52.5	"	-	Cont.		"		11	х	х	х								
.2	11	"	18	70	14	-	н		"		11	х	Х	х								
														-								
														discovered to the same of the								
IND-FINE	1-8800/TH	(REV. 3-61	)	desire con ser-	W	<u> </u>	Action Agen	ு: 6594ti	a ATW			, SECUR	HTY CL	SSIFICA	TION		income ran		9. REVI	510A NO.	**************************************	EVERTICAL PROPERTY.
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<del>di ( 119</del> 99	gyminosi n.64° 24	maggypen. Here %	CHANGE IN	nar ti Ebuda d			TELEMETRY	data SATE	LLITE VEHICL	e transmitte	- 1	I. SECU	FITY CLA	.551F12#	*10^	72.30	20000		2. PAGE 220.6  3. CATE 22 October 1962 4. FERLAGES PAGES
5. P40	SEAN TITLE							6. PROSPAN RES	CIREMENT CODE 7.	SYSTEM CODE	E .	Aero					1.60		Original
12.	111.		RUGREA Trail	205 N SHA	VVE 1.	MERCHANIC TRACE	T1 T	pprocessorements and also also			16. DATA			ED 14				le.	CHEST CONTROL
TEM NO.	TEST 0005	FREU -NO	<b>V</b> 2.	rago.	06V -= 5	NO. OF SEG	RATE. MEASURING -RPS, BPS	(TIVE, CLASS I	POSITION OR FLIGHT CLASS II	PHASE)	ACCURACY FINAL-±%	TAPE		5.5.	110	50%S 6983	207- Put.		PURPOSE AND PEVARKS
1	C,G,E,	a TYPE	8	3.0	7.5	35.0	Cont.	CLASS	(1003)		5%	X		Х	Х		-	1.	Real time perform- ance of satellite vehicle during flight.
. 2			9	3.9	at to	-	11				11	х		х	х			2.	Required for check- out and flight.
3			10	5.4	11							х		х	X				
14			1.2	10.5	,,		17				17	Attacher and the state of the s							
			The state of the s	e o de la companya de											i				•
			A PORT OF THE PROPERTY OF THE							•					•				
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11NO-F14	1 1-11/0035-1	(PEY. 3-51	)	1	10	<u> </u>	<u>.                                    </u>			L		1. SEC	RITY CL	£551F1C	1710N				9. REVISION NO.
137					(#	()	Action Agen	cy: 6594th	ATW		ĺ								1
					'#1 \	V			Dologoo 20	_									1. 4.70

		отне	R TEST DATA		1. SECURITY CLASSIFICATION	2. PAGE 240 3. DAT 22 October 196 4. REPLACES PAGE(S) 240
5. P900	RAM TITLE	PROGRAM 206	6. PROGRAM PROUIREMENT CODE	7. SYSTEM CODE 206	a. Contractur/contract number Aerospace AF04(695)-169	DATED 1 May 1962
10., 1 TEM NO.	TEST CODE	12.	DATA REQUIRED, IN	TERVAL, ACCURACY, PURF	POSE, REMARKS, ETC.	
1	A	Analog recordings of T/M signal s the magnetic tape recordings of s		eviation are requi	red for each data link. This is	in addition to
2	A :	T/M station operators logs are re	quired with all T/M data	1.		•
3	A	Event times for the following eve to STC, Sunnyvale.	nts are required to be	transmitted in near	r real time over voice link from o	lownrange stations
		a. Liftoff				
		b. Booster cutoff				
		c. Vernier cutoff				
		d. Agena D/Atlas separati	on			
		e. Agena D engine ignitio	n (1st burn)		•	
		f. Agena D engine cutoff	(1st burn)			
		g. Agena D/Payload separa	tion			
4	Α	Cotar system printout: Liftoff to	satellite separation +	10 sec.*		
5	A	AN/FPS-16 data: Liftoff to satel	lite separation +10 sec.	*		
6	A	Cine-theodolite data: Liftoff to	satellite separation +1	0 sec.*		
7	A	Ground guidance station data: Li	ftoff to limit of visibi	lity.		
8	A	Agena D telemetry and landline da	ta: Countdown to separa	tion*		
* The	rall	Range safety plotting boards ims are for determination of vehic valuation of missile performance ( REV. 3-61) Action A		analysis, and inf		le program performance,

Agency: Items 1 & 2 - 6595th ATW

Items 7 - 6595th ATW

Items 1. turu 6 - PMR

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			FORECASTS			1. SECURITY SUPSELLIGHT ON	2. PAGE 310  3. CA 22 October 1962 4. PERLACES PAGE(S) 270
5. 02	narse i il.		RAII 205 . PACCRAN -EQUIR RAII 205 . NONE	206		Aerospace AF04(695)-169	310 CATED 1 May 1962
TEV N.	TEST	T VE   E E E E E E E E E E E E E E E E E E	FORECAST PARAVETERS (TYPE DATA, SURFACE, UPBER AIR, SUFFILIBRE, INTER	VALID TIME	LOCATION	16. FURPOSE A	ND REMARKS + .
	*		Items 1 - 8	<u>Items 1-8</u>		Items 1	- 8
1 2 3 4 5 6 7 8	À	T-3 d T-2 d T-1 d T-12 h T-6 h T-4 h T-2 h T-1 h	Precipitation, winds aloft, surface winds visibility to 50K feet, and cloud coverage Critical elements may be obtained from min requirements, PRD 330.	forecast until	Launch area for Items 1 - 8	Determine launch area opera calculate drag, predict dri: evaluate flight performance	ft of vehicle, and
	A STORY OF STORY		<u> Items 9 - 11</u>	Items 9-11		Items 9	- 11
9 10	А	T-1 d T-12 h T-4 h	Precipitation, visibility, surface winds, state of the sea.	and T-O to T+6 h	TLM skips for Items 9-11	Determine capability of TLM mission.	ships to accomplish
			Items 12 and 13	Items 12-13		Items 12 and	1 13
12	A	P-12 h*	Cloud cover, visibility, wind, and state of sea.	of the At rendezvous		Determine capability of data accomplish mission.	a pickup aircraft to
13	ALIAN AND AND AND AND AND AND AND AND AND A	P-6 h				* P is rendezvous time of TI pickup aircraft.	M ship and data-
The second secon			NOTE: T-3 will be general outlook information				
11ND-P14	?-860C/113	(REV. 3-61)	Action Agency: 3rd Wee	ther Ving		1. SECURITY CLASSIFICATION	9. REVISION NO.

<del>*** \**</del>					OBSERVAT	IONS					1. SECURITY CL.			320 3. DATE 22 October 1962 4. PEPLACES PAGE(S) 320
5. P3	GRAM TITL		OGRAM 20	) 6		8. /	EMOU	MENT CODE ?.	SYSTEM CODE 206		Aerospace			DATED 1 May 1962
ITEM	TEST	DATA	13.	SURFA	CE		1	A	UPPER	AIR			15.	E AND REMARKS
NO.	CODE	REQUIRED	TIVE -MIN	LOCATION	ACCURACY - ±	CUSS	TIME - MIN	LCCATION	INTERVAL3	ALT - K FY	ACCURACY - #	CLASS		E AND REWARKS
1	A	Pressure Precipi- tation	T-12 h T- 4 h T- 2 h T- 1 h	Launch area Launch area	<u>+</u> 3 mb	I	T-12 h T- 4 h T- 2 h to T+15m	Launch area	1000 ft	0-50 50-90 90-110	+ 3. mb + 1.5 mb + 1.5 mb	III	and adequacy of instrumentation indicated are	
3	A,	Tempera- ture	, ,	Launch area	± 1°C	I	£ 7	Launch area	1000 ft	0-50 50-90 90-110	+ 1°C + 3°C + 3°C	III II		
4	A	RH	11	Launch area	± 5%	I	-n	Launch area	1000 ft 5000 ft	0 <b>-</b> 50 50-110	<u>+</u> 5%	III		
5	A	Density	11			·	57	Launch area	-	0-50 50-110	± 0.6%	II	Item 8 Determine wind flight effects	or windshear and acceptability.
6	A	Cloud cover	11				20	Launch area		0-110	Best esti- mate of weather observer	I	intended o	observation are
7	A	Visibi- lity		Launch area to 50 n mi down- range	<u>+</u> 1000 ft	I	#1	Launch area to 50 n mi down- range		0-50 50-110	+ 5% + 10%	I	profile of trajectory and may be sary to ob (2) Intervals	an accurate weather of the vehicle of taunch at time of launch modified as necestain this objective. Shown intended only to the standard
8	A	Wind velocity speed, and	14	Launch area	+ 3 knots + 100	I	11	Launch area	1000 ft	0-110	+ 3 knots + 10°	I		e reporting format.
I IND-PHI 40	R-8800/111	(REV. 3-61)		(根)	Action Agen	cy:	3rd West	har Wing	Marie Carlos		1. SECURITY CLA	SSIFICATIO	N	9. REVISION NO.

(M				Market Secretarist			and and an arranged to the second	~~~	en en en			I. SECURITY CL.	SSIFICATIO	N	2. PAGE	320 .1
	*				OBSERVATI	ONS									1. DATE 22	October 1962
5, PRO	GRAM TITLE	<u> </u>	·		*	6. P	ROCK W REQUIRENEN	T Cons	7.	SYSTEM CODE		a. CONTRACTOR/			7	May 1962
			GRAM 206	5 .			NONE			206		Aerospace	e AFO4	(695 <b>)-</b> 169	TOWIED T	May 1902
IO.	II. TEST	IZ. DATA	13,	SURFA			14.			UPPER		ACCURACY - ±	CLASS	PURPO:	SE AND REMA	ARKS .
NO.	CODE	DATA REQUIRED	TIME -MIN	LOCATION	ACCURACY -±	CLASS	TIME -MIN	LOCATIO	XN	INTERVALS	ALT - K FT	ACCURACY - I	CLASS	Items 1-6		
		TLM SHIF	AREA				1 1					ĺ	1	1001110		
1	A	Pressure	all	TIM Ship (Approx. 750 n mi	1 mb	II	The same statement of the same						may reason for the state of the	Evaluate readi to perform mis to orbit inject	sion duri	
			reports to STA and as	downrange)									arten e artife distance	_		
-			speci- fied by FMR										elle brokken med filler sommer.			
2	A	Tempera- ture		Andreas and Andrea	1° C	II						The second secon	The state of the s			
3	A	Cloud cover			Best estimate of observer	П				·						
4	A	Visibi- lity	and designation of the second		1000 ft	II										
5	A	Wind velocity speed direct	The state of the s	e de de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della c	3 knots 10°	п						The state of the s				
6	A	State of surface of sea, direction height, period	,		10° 1 ft 1 sec	II										
I I ND-PM	R-88CO/11	4 (REV. 3-61)		(R)	Actica Agaa		3rd Westb			1/01/20 <i>C</i>	2050000	I. SECURITY CL	ASSIFICATI	OH	B. REVISICO	1 00 778

						1. SECURITY CLASSIFICATION	2. PAGE 330
		MENIMA					3. DATE 22 October 196
5. PR	GRAM TITL	PROGRAM 205	s. Program requirement code NONE	7. SYSTEM CODE	206	a. contractor/contract number Aerospace AF04(695)-169	DATED 1 May 1962
IO. I TEM NO.	TEST CODE	MINIMA (MINIMUM CLOUD C	OVERAGE, SURFACE OR UP	PER WIND VELOCI	TIES OR SHI	EARS, ICING, SEA STATE, ETC.)	
		LAUNCH AREA					
1	A	PRECIPITATION - Should not exceed 0.1"	in one hour.*				
2	A	WIND ALOFT - Maximum wind speed 250 ft,	sec between 30,000	and 40,000 f	eet.		
3	A		r type these values ation is free from	will be re-e	valuated	an AN/CM Q-11 will not ex by General Dynamics/Astron t least fifty feet above the	autics. It is recommended
-		Atlas Empty - Agena Adaj Atlas Full - Agena Adaj Atlas Empty - Agena Empt Atlas Empty - Agena Full Atlas Fueled - Agena Full Atlas Full - Agena Full Minimum Phase II IO <sub>2</sub> Tar	ter Only 39.6 (s) ter Only 33.5 (s) 28.9 (s) 25.8 (24.8 (s) 24.8 (	mm Allowable 42.0 44.9 39.8 42.3 35.9 37.9 31.0 32.7 27.7 29.2 26.5 28.0	50 7 Recorded 49.2 51 46.4 48 41.5 43 35.9 37 32.0 33	5 90 Wind (mph) Note: \$\frac{1}{2} \frac{5}{2} \text{.0}\$ .2 \frac{1}{2} \text{.0}\$ .2 \frac{1}{4} \text{.0}\$ .2 \frac{1}{4} \text{.0}\$ .3 \frac{3}{1} \text{.9}\$ .3 \frac{3}{3} \text{.8}	Surface wind minima for the total Aerospace vehicle (i.e., Atlas, Agena & S/V) will be furnished when available.
4	A	WIND SHEAR - Maximum wind shear of 0.03 transmitted to STA prior t				of 1000 feet. Wind data fo	or S/V is to be
5	A	VISIBILITY - Not less than one nautical	mile or as determ	ined by range	safety o	fficer.	
6		CLOUD COVERAGE - Cloud coverage not in of sky-screen equipmen	it.		altitude.	Sky should be sufficientl	ly clear for use
		*This item required due to rigid control NOTE: Final launch weather visibility Commander 6595th ATW.			e determi	ned by	
11ND-PM	R-8800/115	5 (REY. 3-61) Action Agency	y: 3rd Weather Wil	£		1. SECURITY CLASSIFICATION	9. REVISION NO.

					1. SECURITY CLASSIFICATION	2. FAGE 411
,		VETWORK DRAWING (RADI	O AND WIRE)			3. DATE 22 October 1952 4. REPLACES PASE(S) 411
S. PROGRAM TITLE	PROGRAM 206		e. PROGRAM REULIREMENT CODE NONE	7. SYSTEM CODE 206	8. CONTRACTOR/CONTRACT NUMBER Aerospace AF04(695)-169	DATED 1 May 1962
Tu. ICANONICATIONS NO	AC'N DEALING		described and the state of the state of the state of			TEST CODE
Existing com	munications facili	lties within the si	tes will be used as	detailed by PALC-2, Va	ndenberg AFB,	
Pt. Arguello	, Calif. Project	818(050) communica	tions outline drawing	ngs by Western Electric	•	
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11ND-PMR-880U/196 (12-61)

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Action Agency: 6595th ATW

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		COMMUNICATIO	NS RECO	DROINGS		1 SECURITY CLASSIFICATION 2. AGE 3. GATE 22 ( 4. REPLACES PA	otoser 195
5. PI	OGRAM TITE	PROGRAM 206	6	. PROGRAM	REQUIREMENT CODE 7. SYSTEM CODE 206	a. COMPRACTOR/CENTRACT NUMBER Aerospace AFO4(595)-159 DATED 1 Mg	ıy 1962
I TEM NO.	TEST CODE	REQUIRED RECORDINGS	CORRE	IME LATION NO	DURATION OF RECORDINGS	PURPOSE AND REMARKS	
1	A,B,	Voice recording of all countdown nets	X		T-425 m to T+30 m	Recording of countdown tasks (capability 7 channels).	oî
2	A,B,	Range safety communications	х		Launch to separation	Record of range safety communications.	•
Propries and Propr							
						Note: Recordings from ships will not be	required.
-	**************************************		And the second s	Total Control of Contr			
!							
1 I ND-P1-	R-8800/12	4 (REV. 3-61) Action Age	ncy:	Item Item	1 - 6595th ATW 2 - FWR	1. SECURITY CLASSIFICATION 9. GEVISION BD.	

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	,				RADIO							3. SATE 22 October 190
5.	POGRAM TITE	. ٤			6	. PPOGRAM	REWLIREMENT CODE	7. SYSTEM	2002	8. CONTRACTOR/CONTRACT NUMBER		1
	-			A11 203		11.01	E		205	Aerospace AF04(59	THE CASE OF THE CA	DATED 1 May 1952
ITEM No.	TEST CODE	ADMIN.	OPS	TYPE OF	SERVICE	QTY	STATION BLOG		ION OF OPERATING	TERMINALS BLDG., ROOM, ETC.	PUR	POSE AND REMARKS
	A,E		x	HF radio link (S	SSB)	2				nge radar/instru-	communication	nd RTTY (60 wom) ons and data trans- ween STA, VAFB and
2	A,E	all the second s	x	UHF radio link		1			Two-way voice downrange ship	circuit aboard	Homing and data pickup	communications with aircraft.
		k-Ti-panamaka Ti-Ti-Takkishananganamak		-								
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	,	To the second se	,								Market Stranger of	
A STATE OF THE PERSON AS A STATE OF THE PERSON												
	And the second district of the second of the											
1 IND-P	NR-8800/11	7 (REV. :	3~61)	<b>NRD</b>	Action Agency	: PMR				1. SECURITY CLASSIFICATION	Constitution of the Consti	9. REVISION NO.  1

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W. 2. 7 11 12 12 12 12 12 12 12 12 12 12 12 12				. WIR	?E	A				I. SECURITY CLASSIFICATION	- CONSTRUCTION	2. PAGE 430 3. DATE 22 October 1962 4. REPLACES PAGE(S) 430
5. 2	90GRAM TIT	LF	PR	OCRAM 206	5. PROGR	NONE	MENT CODE	7. SYSTEM	206	a. CONTRACTOR/CONTRACT NUMBER LEGG AF04(695)-16	9 ·	DATED 1 May 1962
ITE I	TEST CODE	IZ. (	SE OPS	TYPE OF SERVICE	14 Q		ON BLOG.	L OCAT	TION OF OPERATING T	ERMINALS BLDG., ROOM, ETC.	16. PUF	POSE AND REMARKS
1				Lease lines	2							
2				Lease lines	10		8310					
3	- Anna Carlos Ca	The sections of the section of the s	х	4-Unit operations control monitoring console	14		MAB		(2) MAB (2) I	cocc	Test opera	ations
4			х	Countdown clock system	7	VAFE	LOB	(7)		rol rm; 2 Equipment or); 1 GD-A instrume		rations
	-		**************************************		2	laun	Arguell ch pad ice Blo	and	2 LMSC instrument each building)	ment room (one in		lo - Operations
					8	VAFE	MAB (2 tracki ion (8)	ing	1 command room 1 LMSC data va 2 DAP; 1 LMSC 1 command and	n; l VCC nn; l VHF bldg.; radar van;	VAFB - Ope	
					1	Pt. Rang	LOCC Arguell e safet	· <b>y</b>	1 UHF bldg. 1 LOCC VAFB 1 Range safety		VAFB - Ope Pt. Arguel	rations lo - Operations
					1	VAFE	1	MSTCR	l GE guidance l Master stati control room	on tracking		lo - Operations
					1	VAFB	8310	106	Ground electro	nics lab.	Testing op	eration
5				Liftoff circuits			İ				-	
6			Х	Backup and line linkages between PMR and STC	2						For data, and between PM	TTY (60 wpm), voice transmissions R and STA
7	х	х	x	Voice quality circuit	5	VAFB	2208	2nd floor	Plant 71, San	Diego		ll programs
												ms 1 thru 4 are C requirements.
1 <b>ND-P</b> 1 46	4R-8800/17	5 (3-61)	l	ADD ACTION AGEN	CY: 6	595 <b>t</b> h	ATS			1. SECURITY CLASSIFICATION	-	9. REVISION NO.
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			MOPS																	SIFICA						3. DA	1500 O	431 ctobe:	r 1962 31
5. PR	PROGRAM 205			6.		ONE	REMENT	CODE	Ľ	. 5YS		906 206				ĵ							-16	)		DATED	l Ma	y 195	2
10. TE	ST CODE:			15.					4 O P	SNE	T FU	INCT	ON	OR HA	ME			_			16.	.	7. 18.		END I	NSTRU	KENT T	YPES	
11, LC	CAL AREA			The state of the s		Value			The control of the co						And the second s		Transfer of the second	Comments (Colonial Colonial		TYPE OF END	TRUMENT	BER OF HEADSETS	INST - ABB INST - WEA INST INST INS	RUME REVIA RUME THER RUME ATHES	NT TED OF NT PROOF NT RPROOF		OR END TOR EN ATOR EN		
12, STA HO.	13. STATION OR POSITION TITLE	14. LOCA		1 2	3	4 5	5 7	. 8	9	10 1	1 12	13	14	15 16	17	18 1	9 2	0 21	22	23 2	-		19.	REM	ARKS	SPECIA	L INST	RUCTIO	45 /
																					•			este:	rn E 50) draw	lectricommunications of the communication of the co	ric P.	efined roject ions be us	out-
I IND-P 47	MR-8800/119 (REV. 3-61)	Act	ion A	geno	:у <b>:</b>	659	5th	W.C.A									SEC	URITY	CLASS	SIFICAT	10%					9. REVI	5109 NG.	1	,

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Security Line   Security Lin					-Baj	Test					+	+								-
10%   14    VSE				D	-				$\vdash$	$\overline{}$	+	+	+-				<del></del>			
" Security Line * NOTE: The following are in addition existing system.  3 phones assembly room 1 phone personnel ready room 1 phone personnel preparation 1 phone control room 1 phone guard station  Items 1 thru 9 are per existing installations.						Lirans			-		++	+	+-			-  ×	X			10%
existing system.  3 phones assembly room 1 phone personnel ready room 1 phone personnel preparation 1 phone control room 1 phone guard station  Items 1 thru 9 are per existi installations.	tion to -		* NOTE:						$\Box$		$\forall$					$\top$				
l phone personnel ready room l phone personnel preparation l phone control room l phone guard station ltems l thru 9 are per existi installations.		isting system.			I														* -	
l phone personnel ready room l phone personnel preparation l phone control room l phone guard station ltems 1 thru 9 are per existi installations.	_	thones assembly room			1															
l phone control room l phone guard station  Items 1 thru 9 are per existi installations.	oom —				$\bot$	-			$\vdash$		$\perp$	<del></del>				$\perp$				
l phone guard station Items 1 thru 9 are per existi installations.	tion room -		_		+	<u> </u>					+	+				$\dashv$	<del> </del>			
Items 1 thru 9 are per existi installations.			_		+				$\overline{}$			+				$\dashv$	<del> </del>			<del> </del> -
installations,	_	phone guard station	_		+	·			-		+	+				++	-			
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1. SECURITY CLASSIFICATION   9. REVISION NO.	Strain an area delication	The state of the second supply and the second state of the second	COUNTY CLASS		1		Liver	CALIFORNIA TORINI				L	FRINCA STEMPS		***********		2 (1)	(00)	en cle	140.00
1180-PR-SBL0/120 (REV. 3-61) Action Agency: 6595th ATW	1	y_ REVISION NO.	SCUUNTIT CLASSIFI			wta .	6595th	ncy:	. Age	tion	Ac		4)	A.			a-61)	) (KEA.	-0800/12	

1	•			1. SECURITY CLASSIFICATION	2. PAGE 434
-		PUBLIC ADD	RESS		1. ME 22 October 1962
1 20	CGPAM TITLE	4.42	6. PROGRAM REQUIREMENT CODE 7. SYSTEM CODE	8. CONTRACTOR/CONTRACT NUMBER	4. PEPLACES PAGETS: 434
1 "		PROGRAM 206	NONE 206	Aerospace AF04(695)-169	DATED 1 May 1962
ITEM NO.	TEST CODE	PURPOSE	SPEAKER LOCATION	14. REMARKS	
			1	<u>}</u>	
1	All	Countdown, system checkout, and general use	PALC II, MAB III	PA system will be utilized a installed.	s presently
		general use	,	Inducation.	
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LIND-PS	R-8800/122	RFV. 3-61)		1. SECURITY CLASSIFICATION	9. REVISION NO.
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	anna de la company de la compa	WOLTH SERVICE	<u> </u>		<del>-</del>		1. SECURITY CLASSI	FICATION		2. PAGE 435
	•	CLO	SED LOOP TEL	EVISION						3. DATE 22 October 19
5. PRCSRA	W TITLE			6. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE		B. CONTRACTOR/CONT	RACT NUMBER		435
	PALC	II - PROGRAM 206		NONE	206		Aerospace	AF04(69	95)-169	DATED 1 May 1962
10.	11.	12.	13.	14.	15.	16.		17.	18.	REMARKS
CODE	OPERATING TIME	SUBJECT	SUBJECT	LOCATION	MONITORING LOCATION	SUBJE	CTS MONITORED	NO. OF OBSERVERS	NIGHT OPERA	TIONS REQUIREO: XYES N
As Req'd	T-400 to T+30	FS Surveillance	80 high	Launch pad	LOB		round dis- et and FS es	50	Camera No. 1	All cameras are equipped with remote zoom lenses and remote pan and tilt
	11	OS & FS Surveillance	120 high	fi	, n	OS & F	rs .	50	Camera No. 2	
	- 11 -	FS Surveillance	80 high	#	<b>u</b>		rust section uncher	50	Camera No. 3	See PRD 220.4 for TV camera location sketch
		For upper stage contractor use	,						Camera No. 4	
		H .							Camera No. 5	•.
		tr							Camera No. 6	
As Req'd	T-400 to T+30	OS & FS Surveillance	200 high	Launch pad	LOB	Launch	pad area	50		
_										
						-				FS - First Stage OS - Orbital Stage LOB - Launch Operations Building
								.		
ND-PHR-	8800/123 (RE	V. 12-61)					1. SECURITY CLASSIF	ICATION .		9. REVISION NO.
0		(KD)	Action Ag	ency: 6595th ATW		.	•			1 ////2

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						TIMING	(ALL	-	-						3. DATE 22 4. REPLACES	October 1440	1962
	GRAM TITL		RAM 206				6. PROG	NONE	MENT CODE	$\perp$	SYSTEM CODE 206	a. contractor/contract number Aerospace AFOli(69	95)-169			lay 1962	
	11.	12. TIMING	SIGNAL	13.	LOCATIO	N OF RA	ANGE END	INSTRUM	ENT	14	RANGE U	SER'S RECORDING INSTRU	MENT OR TE	RANSDUCER			SE
TE4	TEST CODE	TIMING CODES & REP. RATES	CORRELATION ACCURACY \$	STA- TION	BLDG, HGR OR BH. ND	ROOM NO.	RACK NO.	AMBIENT TEMP OF	SPACE AVAILABLE	OTY	TYPE 8	MODEL .	RECORDING SPEED-CM/S	INPUT VOLTAGE - V	INPUT Z	FREQUENCY RESPONSE-CPS	
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		DIGIT - 10PPS EL		OE (1 1	c/s lone m	odulated	<u>}</u>										
		(toneburst) (1 k									G "B" - 100 PPS (1 kc/s)						
		SINUSOIDAL	[ - imited avai	IADITI	3)						G "C" - 2 PPS (100 CPS)						
		CPS SINUSOIDAL									G "D" - 1 PPM (100 CPS)  ODOLITE - 25 MS NULLS; NULLS CA	N RE 20 10 4 2 no 1/ser	. 00 EVED	2 4 OR R	/sec		
		/125 (REV. 12-8	1) .							i H	OCCE, IE - EO MO NOCES; NOCES CA	1. SECURITY CLASSIFICATION	UK EVERT		. REVISION N	0	
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,	311		SERVICES			1. SECUPITY CLASSIFICATION	<sup>2</sup> * * 510 3. * E*** 22 October 1962
5. P906	PRO	OGRAM 206	6. PROGRAM REGUIPEMENT CODE 7.	SYSTEH CODE		Aerospace AF04(695)-169	510 CATED 1 May 1962
id. I TEM NO.	TEST CODE	TYPE OF SERVICE	FREQUENCY AND/OR DURA		14.	PURPOSE AND REM	
1	A11	Fire protection (NFPA responsibility)	Approximately five (5) hazar per month. Each test eight duration requiring one (1) i and crew per test starting a 1 March 1963.	(8) hours Fire truck	and du	zardous testing during prope ring static or launch operat guello.	
2	17	Security guards	To be specified by the 6595t		for sec	ntrol of entries and departu curity purposes during stat ill be required at MAB at VA at Pt. Arguello.	ic firings guard serv-
3	15.	Escort service	Escort service starting appr 1 January 1963 and each mont through June 1964.			ing of Program <b>2</b> 06 vehicle fax and Pt. Arguello.	rom MAB, VAFB to launch
	11	Medical (MMFPA responsibility)	Approximately five (5) hazar per month. Each test eight duration requiring an ambula to provide emergency first a test, starting 1 January 196	(8) hours in nce and crew id for each 3.	ation comple: Person ated w	e first aid service to person and/or operations tasks at M x at Pt. Arguello. nel should be capable of fir- ith hazardous operations invo- acid, UDMH, and high pressur	AB, VAFB, and the launch st aid treatment associ-
5	"	Emergency hospitalization	As required.	7	Facilit the MAE	ties should be within 15 minus, VAFB, and the 206 launch of	utes traveling time of complex, Pt. Arguello.
6	"	Ambulance service (MEPA responsibility)	As required. Must be availa any type of launch complex o			noval of medical cases to eme complete with standby driver	
7	**	Wash stations	As required during all opera			personnel who have come in or gases.	contact with hazardous
8	A	Personnel protection	Each launching,	1 8	and sto	a and shower stations located orage area. Protected struct equipment and launch person	cure housing launch/
ND-PI-R-88	3CO/128 (F	REV. 3-GI) ACTIO	n Agency: Items 1,2,3,4, & 6	DMD		1. SECURITY CLASSIFICATION	9. REVISION NO.

		S	ERVICES			. —	1. SECURITY CLASSIFICATION	2. PASE 510.1 3. DETE 22 October 1962 4. REPLACES PASSIS.
5. PROG	RAM TITLE	PROGRAM 206	6. PROGRAM RE NONE		7. SYSTEM CODE 206		Aerospace AF04(695)-169	510.1 DATED 1 May 1962
	TEST CODE	TYPE OF SERVICE	13.	NCY AND/OR D		14.	PURPOSE AND REMAR	The second secon
9	All	Complex safety	Approximately in per month. Each duration requirement and crew per temately 1 Januar	ch test ei ring one (: est. Star	ght (8) hours 1) fire truck	during superv	e control of personnel and saf hazardous operations. Comple ision of launch control during other times as applicable.	x safety to be under
. 10	T1 .	Trash disposal (NMFPA Responsibility)	Regular basis s 1 Sept. 1962	starting a	pproximately	Complia	ance with State and Federal in	dustrial health codes
11	31	Messing: Cafeteria	service for app	Arguello sonnel on a simately Ma proximately ed at VAFB	for approxi- a 2-shift basis arch 1963. Food 7 80 personnel starting approx	have a	ommodate personnel performing of t. Arguello and MAB at VAFB, the second and third shift capabitand a 24-hour snack bar service	ne cafeteria should lity with first shift
12	11	Lunch wagon service	Service will be starting approx during normal m Food service for required approx. during normal m	imately 1 ealtimes a r VAFB, MA imately Fe	nd rest periods B area will be bruary 1962	MAB ard familia uninte	ommodate personnel performing of ea, VAFB, and Pt. Arguello the ar with mealtimes and rest persupted work schedules	caterer must be
and the second s								
		•						
NO 01:0 0	000/133 (	REV. 3-GI) Action	Agency: Items 1	0033 T	23.00		1. SECURITY CLASSIFICATION	9. REVISION NO.

	. ;		SERVICE	s			i, SECUPIT CLASSIFICATION	2. PASE 510.2 3. DATE 22 October 196; 4. PEPLACES 510.2
5. PROG	RAM TITLE	NOTE NO.		6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE		Aerospace AF04(695)-169	DATES 1 May 1962
o. 1	11. Pr	OCRAM 206	113.	NONE	200	14.		
NO.	TEST	TYPE OF SERVICE		FREQUENCY AND/OR DU	IRATION		PURPOSE AND REMA	RKS
13	All	Janitorial service	1 December of approximately sonne. 2200 side,	available starting ember 1962 at Pt. A ximately 50,000 sq 1 in the MAB area of sq ft and 240 perso and 1800 sq ft in ecciving area.	rguello for ft and 80 per- of VAFB, for onnel in GD-A	То соп	uply with State and Federal in	ndustrial health codes.
14	Tt.	Building maintenance	appro	enance will be requ ximately 1 December	1962.	tions but no buildi plumbi	puildings in continuous opera phases of the 206 Program. I but be limited to ordinary or ings, utilities, heating, air- ing equipment.	Maintenance to mean, emergency repairs to -conditioning and
15	ŧī į	Roadway maintenance	Conti	nuous maintenance r	equired.	site i	coadways from MAB, VAFB, and in optimum condition for moven te, Atlas booster, Agena, GSE	ment of the satellite
16	T I	Grounds maintenance	Conti	nuous maintenance r	equired.	hazard	urrounding grounds and parkings, excessive blowing sand, so guello site and MAB, VAFB.	g area free from fire il erosion, etc. at
17	"	General machine shop, MAB area, VAFB		oport operational a ning approximately			ate, modify, or repair metal achined and formed.	parts and assemblies,
18		Mechanical shop, MAB area, VAFB		pport operational a ning approximately		preset equipm	ties are required for bending ting tubing up to 3-in. diame ent up to 30,000 psig is requ ed under a facilities contrac	ter. Hydrostatic ired. Equipment to be
Producer committee contractions of the contraction	A							
te Dan george vide all property and a planta beauty beauty	-	•						

IIND-PHR-8800/128 (REV. 3-C1)

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Action Agency: Items 13,14,17, & 18 - 6595th ATW Items 15 & 16 - STRATAD

595th ATW 1. SECURITY CLASSIFICATION

. REVISION

107

	•	SERVICES		1. SECUPITY CLASSIFICATION	3. tri22 October 19
			,	6. CONTRACTOR/CCNTRACT NUVEEP	4. FEP, 43ES PASE, S. 510-3
PPOSEAM T		6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE 206	Aerospace AF04(695)-169	547ES 1 May 1962
[11.	PROGRAM 206	NORE.	1 200	Aerospace Aro4(09)/-109	1 May 1902
TEM TE		FREQUENCY AND/OR D	URATION	PURPOSE AND RE	MARKS
9 A1	Wood shop, MAB area, VAFB	To support operational ac beginning approximately		Perform maintenance-type repairs platforms and support structures	
0 "	Preventative maintenance shop MAB area, VAFB	To support operational ac beginning approximately		Perform maintenance and repair of equipment. This will require the plumbing, painting, electrical, a repair functions. Equipment to a facilities contract.	e capability for welding and hydraulic/pneumatic
1 "	Mechanical laboratory, MAB area, VAFB	To support operational ac beginning approximately 1		Fabrication and testing of special disassembly and assembly, calibre special gages, flowmeters, valves bench, 4000 psi at 10 gpm and a pl2,000 psi is required.	ation, and testing of s, etc. Hydraulic flow
2 "	Mechanical component cleaning and service facility, VAFB	To support orperational a beginning approximately 1		Disassemble, clean, lubricate, an components requiring special cleat clean tubing, piping, flex-lines cleaning techniques. Facility stoleaning capability: vacuum flow and pickling cleaning; vapor solve greasing; steam cleaning and/or stacility is available under GDA stacility is available under GDA inc.) as a common use AFSC contrabled. 3318, VAFB under WCMR contributes of accomplishing this with AFEM (ARDC) Exhibit 61-3, da "Specification for Cleaning and I gen, Liquid Nitrogen, Gaseous Nithandling Systems."	uning services. Also, , etc, requiring special hould have the following ring, brushing, flushing rent and detergent de- sonic cleaning. This subcontract (Planetech, hotor support facility in ract administration. It function in accordance thed 6 February 1961, hispection of Liquid Oxy.

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Items 19 - 21 -Item 22 - WCMR

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		SERVICES	,		1. SECURITY CLASSIFICATION	1. *** 510.1: 1. **** 22 October 19
	PROGRAM 206	6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE 206	- moking	Aerospace AF04(695)-169	510.4 SATES 1 May 1962
EM TEST CODE	TYPE OF SERVICE	FREQUENCY AND/OR D	URATION	14.	PURPOSE AND RE	MARKS
3 A11	Chemical and metallurgical laboratory, Bldg. 7422, VAFB.	To support operational adbeginning approximately		Agena- ment (	nalysis of all gases and li D, and satellite vehicles, AGE), and fixed facility e usibility.	aerospace ground equip-
4 "	High-energy propellant disposal area.	To be in continuous use a imately 1 March 1963.	starting approx-	fluids	sposal of hazardous missil . Disposal is the respons over by ISTRATAD.	
5	High-energy propellant storage and handling area.	п п		propel manage person	ceipt, storage, handling, a lants. Storage and handli ment and operation until s nel can be trained to take base support facility.	ng area under LMSC uch time as ISTRATAD
6 "	Booster propellant storage and disposal area.	11 77	•		ceipt, storage, handling, oster propellants.	delivery, and disposal
7 "	Precision measurement equipment laboratory	As required		VAFB re Division System	Unless otherwise specified esponsibility in accordance on (DPIC) (SAC) "Policy for Contractors at VAFB and Pt 1960 and subsequent revisi	e with Hq. 1st Missile r Support of Weapon t. Arguello" dated

11MD-PHR-88CO/128 (REV. 3-C1)

Action Agency: Item 23 - AFIC

Items 24 thru 27 - STRATAD

Approved for Release: 2024/01/30 C05099025

o		VEHICLE	S AND GROUND HANDLIN	IG EQUIPME	NT (C	iD/A)					1	SECURIT	CLASSIF	ICATION				2. PAGE 3. DATE 4. REPS		520 tober	- 196
5. 490	GRAM TITLE	·		6. PROGRAM	REQUIREMEN		7. SY	206			,	CONTRAC							<del>761 гл</del> 520 1 Меу		
13	PROGRAM 206	Tip	TT3.	NONE	115.	1 15.	1	200				Aeros							1 Mey	1705	<u> </u>
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FTEM ND.	à	CAPACITY	PURPOSE	USE	OR	FY		63	F	7 04		64	FY	65		<b>_</b>	FY	<del></del>		FY	
	NOMENCLATURE			USE	D RF	-	CY	T 3		+	CY Z	04		<b> </b>	CY 2		T		CY	т	
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	-		Transportation o		OP RUE		١.	1	i .	١.	1.			l	l	1	1	1	1	1	1
1	Station Wagon*	9 Pass.	personnel from c	cmplex_		14	14	1 4	4	14	14	<u> </u>		<u> </u>	1	<u> </u>	1				
			to MAB building			1	i		İ		ĺ				1	1	1	l		1	
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		1	Movement of elec			1 .	1	ļ	l	1	1	ļ	1	•	1		1	1	1	j	
2	Truck, Panel*	1-2 ton	ic equipment bet		RUF	2	2	<u>  5</u>	2	2	2	1	<u> </u>	<b> </b>	<b> </b>	<u> </u>	<del> </del>		1		4
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			Movement of hard			i		Ì	İ		1	1		l	1	1		1	1	İ	
3	Pickup*	1-2 ton	and equipment be	tween 90	RUF	8	8	8	8	8	8				I	l		1	1	1	1
			and within vario			1	1		T		T	1				1	1	<b>T</b>		1	1
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	Truck, stake plat-	*					İ		T	1	1	Т					T	1	1	İ	t
4	form w/hydraulic	2 +02	Same as Item 3	90	RUF	1	1	1	1 7	1 1	1 1	1				i	1	1			1
	lift tail gate,		come up rouse		1	<del>                                     </del>	_	T-	† <b>-</b>	T-	<del>                                     </del>			·		-	<b>†</b>	1	t	-	+-
	2-speed rear axle	1		1	1	1	1			,	1	1				1		1			1
			For moving miss	110	<del>                                     </del>	+-	+	<del>                                     </del>	1	+-	<del>                                     </del>	<b>†</b>				<del> </del>	<b>†</b>	1	i —	<del>                                     </del>	+-
5	Truck - Tractor*				RUF	1 3	3	3	3	2	3						1	1	l	l	į
		oth wheel			RUE	+	+-3-	<del>                                     </del>	13	+	+	<del>                                     </del>					├	┼		<del> </del>	┼
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		trailer	MAB to complex			┼	-	-		-	ऻ								<b> </b>	<del> </del>	┼
_		1	For moving loads				_	_	١	1_	1 _										1
6	Truck, fork lift*	8000 1ъ		mplex 90	RUF	2	2	2	2	2_	2						ļ		ļ	ļ	<del> </del>
			area			ĺ	1			1	1						[			1	1
						<b>}</b>	ļ	<u> </u>	ــــ		<del> </del>							<u> </u>			
	Semi-trailer,*	14 ton	General movement		l	1	1		1	1	1	( )							l		1
7	low bed	30 ft	equipment and ha		RUF	1	1	1	1	1								pment			<u></u>
	-		ware to and from	ı		1	ĺ	1	l ·	1	l	1 1		l		used	to	uppor	t all	GD/	A
			complex areas						<u> </u>	1						prog	rams				
	Semi-trailer,*		Transporting high	h				1					7			_ 7					1
8	compressed gas	(35,000	pressure gases(h	elium) 9	ORUP	12	12	12	12	12	12		1	ж	E:	The	e it	ems m	y be	prov	iāed
	cylinder type*	scf at	from tank car si															ly C			
			to complex	-0				]		1			1	l	l	AF d	4(69	7-21			ĺ
			Personal transpor	rtat on	T			T	l .	I							- Mary 18				
9	Bus*	R2 Pass.	between VAFB and	an	RUF	1	1	1	ı	1	וו		1	Ì	l	ı					
	-8800/131 (REV. 3-61)	<u></u>	Santa Maria	1 70	12.02		-			1-		SECURITY	C 155151					9. MEVIS		لــــا	
	"SOUV/131 (NEV. 3-61)	اآله	<b>N</b>								١.	SELEM! TY	ULASSIF!	-a1 100				p. Mayis	ent HC.		
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		111	V	_							ı						- 1				

Approved for Release: 2024/01/30 C05099025

1 Bus 2 True pick True form tail	PROGRAM 2  NAME  A  NOMENCLATURE  Ck, panel or  cup	capacity 33 Pass.	PURPOSE Transport personnel	74. 75. USE	NONE Is. RU	16.		SYSTEM C	206		1	Aeros	-			69	1	CATES	l Ma	v 106	
1 Bus 2 Truc pick Truc form tail	NOMENCLATURE  rk, panel or  rup	CAPACITY  33 Pass.	Transport personnel	75 USE	RU	_ }		Andrew Britain							111	.0)				U +70	<u>2</u> د
1 Bus 2 Truc pick Truc form tail	NOMENCLATURE  rk, panel or  rup	33 Pass.	Transport personnel	บระ	OF	F				MARKAGE LANG	and the second	NUMBE	P PEQU	18ED /0	SUAPTER	1		****	The rest of the second	.mar.amar.pa	MORPHICKOS
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Approved for Release: 2024/01/30 C05099025

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Approved for Release: 2024/01/30 C05099025

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Approved for Release: 2024/01/30 C05099025

KINDON NEWS	MISCELL	ANEOUS LUBRICANTS, HYDRAULIC	FL	ulos	, PRE	SERVA	TIVES.	ETC.	(AGE	NA D)	V. Home	1.	SECURIT	Y CLASSIF	CATION			ŀ	2. PAGE 3. DATE	22 0	532.2 ctobe	r 19
* 000	DORAM TITLE					UIREMENT			TEM CODE			-	CONTRAC	TOR/CON TR	ACT NUMBI	ER			4. REPL	ACES PAGE	(s) 53	2.2
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10.	PROGRAM 206	12.	13.	UNI	NONE	14.	15.			)			HANTIT	CE A	RED/O	95)-1	09		OXINGE CHICAGO	asanonium		_
TEM		MILITARY	T	S	TT	RUF	FY	62	Γ	FY	63		1	FY	64		T	FY			FY	
NO.	NAME/DESIGNATION	SPECIFICATION NUMBER	2	SON O	× 01 ×	OR RF		CY	63		T	CY	63		T	CY	64		T .	CY		
		NUMBER	0 5	POUNDS	×		1	z	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	Methylene chloride	Mil-D-6998A, grd A Amo	T	ĺχ	12/2	RUF		5.5	16.5	11.0	11.0	11.0	11.0		Π				T			T
	Tsopropyl alcohol	MTL-F-5566, Amd 3	Ţ	l x	12	RUF	T	11	-3	2	2.	2	2			1	T	T	Ţ			
	Methyl alcohol	0-M 232D, grd A		Шx		RUF		8.5	25.5	17.0	17.0	17.0	17.0									
	Tetrachloroethylene	MIL-T-27602	T	Πx	0	RUF			150			100	100				T					
	Synthetic oil	MIL-L-7808D		x l	0	RUF.	1	20	60	40		40	40				1	1	1			1
	COMMUNICATE CAR	19000	- -	11	Ηř	- خاعدد -	1	1								1		1				
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HD-PMR	-8600/134 (REV. 3-61)	·	لساسا					·				11.	SECURITY	CLASSIFI	CATION		·	T :	. REVISI	ION NO.		
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							1. SECURITY CLASSIFICA	ION	2, PAGE 540
		СН	EMICAL AND PHYSI	CAL ANALYSIS	(ATLAS)				3. DATE 22 October 1962 4. REPLACES PAGE(5) 540
5. PR	OGRAM TITLE	PROGRAM 206		6. PROGRAM RECGIR		7. SYSTEM CODE	B. CONTRACTOR/CONTRACT		1
10.	lu. T	FROMAN 200	113.	140141	114,	200	Aerospace AFO	·(695) <b>-</b> 169	OATED 1 May 1962
ITEM NO.	TEST CODE	. NAME/DESIGNATION		PEC. NO.		DETAILS	OF ANALYSIS REQUIRED	T. D. W. Charles and the control of	SAMPLING TIMES
1	·NA	Helium	U.S. Bureau o	of Mines	Analyze	e to meet GD/A Spec.	0-73010		30-d intervals
2		Nitrogen, liquid & gas	MIL-P-27401A		Meet li	sted specifications			30-d intervals
3		Lubricating oil, aircraf	MIL-L-6086		The state of the s				Samples to be taken before servicing
4		Hydraulic fluid	MIL-H-5606(A)		Particl	e size			As required
5	-	RP-1	MIL-R-25576(1	3)	AP1 & r	article size		·	T-3 d
6		Liquid oxygen (LO <sub>2</sub> )	MIL-0-25508(0	:)	Particl	e size			30-d intervals
7		Trichlorethelene, stabi- lized, degreasing	MIL-1 -7003						•,
8		Trichlorethelene, missile grade	MIL-T-27602						· .
9		Preservative compound	MIL-C-14201						
10	-	Grease, gimbal bearing	MIL-G-7118					٠.,	
								Ì	
I I NO-PMS	R-8800/135	(REV. 3-61)	L		1		1. SECURITY CLASSIFICAT	ON	9. REVISION NO.
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					1. SECURITY CLASSIFICATION	2. PAGE
			EMICAL AND PHYSICAL ANALYSIS			3. DATE 22 October 1962 4. REPLACES PAGE(S) 540.1
5. PS	OGRAM TITLE	PROGRAM 206	s. program requir NONE	206	Aerospace AF04(695)-169	DATED 1 May 1962
ITEM NO.	TEST CODE	NAME/QESTGNATION	MIL. SPEC. NO.	DETAILS OF	ANALYSIS REQUIRED	SAMPLING TIMES
1	NA	Inhibited red fuming nitric acid (IRFNA)	MIL-P-7254E, Type III B	Determine percentage of const and residual solids contents.		Upon receipt of shipment and between T6-T2 day
2	-	Unsymmetrical dimethyl- hydrazine (UDMH)	MIL-D-25604B, Amd. I	Determine compliance with spe attention to transmittance fa		Upon receipt of shipment and between T6-T2 day
-3		Tetrafluoromethane	LAC-31-4000A	Determine percentage of CF <sub>h</sub> /N analysis) per LMSC 1303937F.	2 (gaseous chromatic graphic	Upon receipt of shipment and between T6-T2 day
4		Gaseous nitrogen	MIL-P-27401A, Grade A, Type I	Meet listed specifications.		T-3 day results in 36 hr and a delivery sample taken before engine servicing on T-1 day
5		Methylene chloride	MIL-D-6998A Grade A	Percent of iron oxides by weig	ght.	Upon receipt and certification prior to use
6	To the second se	Methyl alcohol	O-M 232D Grade A	Percent of iron oxides by weig	ght.	Upon receipt and certification prior to use
7		Isopropyl alcohol	MIL-F-5566 Amd. 3	Meet listed specifications.		Upon receipt and certification prior to use
8		Trichloroethylene	MIL-T-27602	Meet listed specification.		Upon receipt and certification prior to use
11ND-PH	R-88CO/135	(REV. 3-61)	Action Agency: AFLC		1. SECURITY CLASSIFICATION	9. REVISION NO.

5, PR	OGRAM TITLE	Ε	SEMICAL AND PHYS	ICAL ANALYSIS (SA	DE 7. SYSTEM CODE	SECUPTY CLASSIFICATION  S. CONTRACTOR/CONTRACT NUMBER	2. PASE 501.2 3 SA 522 October 1962 4. PEPLACES PASE 5. 540.2
10.	- A CONTRACTOR OF THE PARTY OF	PROGRAM 206	1 13.	NONE	206	Aerospace AF04(695)-169	DATED 1 May 1962
ITEM NO.	TEST	NAME/DESIGNATION		PEC. NO.	DETAILS OF	ANALYSIS REQUIRED	SAMPLING TIMES
1	NA	Nitrogen	MIL-P-27401A Nitrogen, pr	(Propellant, essurizing)	Compliance with specif	ication	Upon receipt of shipment, and prior to launch
2		Freon	GE-MSD Spec (Carbon etr Limits of A		Compliance with specif	ication	Upon receipt of shipment and prior to launch
3		Hydrazine & monomethyl hydrazine (MMH)	MIL-P-26536 Hydrazine); (Fuel Requir Space Engine	SVS 4200 ements for	Compliance with specifi	ication	Upon receipt of shipment and prior to launch
4		Nitrogen etroxide	MIL-P-26539 Nitrogen Tet		Compliance with specifi	cation	Upon receipt of shipment and prior to launch
	·						
1 I NO-PMF 1 70	R-8800/135	(REV. 3-61)	Action Ager	ncy: AFIC		1. SECURITY CLASSIFICATION	9. REVISION NO.

CUCNICKER	A 01.4					1. SECURITY CLASS	SIFICATION		Carrier La Company	2.	. PAGE	560
	TEST I	NSTRUMENT MAINT	NANCE AND CALIBRATION	(GD/A)						3.	DATE 22 Oc	ctober 195
						8. CONTRACTOR/CON				4.	REPLACES PAGE	<sup>151</sup> 560
S. PI	PROGRAM 206		6. PROGRAM REGULEREMENT COU	E 7. SYSTEM COD	206	1						
			NONE			Aerospace			·		<sup>ATED</sup> 1 May	7 1962
ITEM	11. RANGE U	Y	ELECTRONIC OR MECHANICAL NAME OF	MEASURING INS	TRUMENTS	RANGE USER	CYCLE -	LIBRATI	ON IN PLACE	STA.	OCATION BLDG OR HGR	.ACCURACY
NO.	NAME/DESTGNATION	RANGE OR SCALE & UNITS	MANUFACTURER	MODEL NUMBER	SERIAL NO.	CONTROL NO.	MONTHS	DAYS	YES NO	NO.	OR BH NO.	REQUIRED
23456	Differential voltmeter VTVM Wheatstone bridge Microammeter Dc microvoltmeter	77	2   John Fluke 4   H/P 2   L/N 2   Kintel 2   Kintel	803 400 <b>H</b> 4735 203 202B		and the state of t	3 4 4 3					
7 8 9 10	De microvoltmeter Wave analyzer Resistor set (DEC) Inductor decade Capacitor set (DEC) De voltmeter		General Radio General Radio General Radio	736A 1432P 1490B			3 3 4 6					
12 13 14 15 16 17 18 19 21 22 23 24	Transformer rectifier Z-bridge Electronic counter Megohmeter Oscilloscope Oscilloscope Ratio transformer Harmonic wave analyzer Generator Audio oscillator Audio generator Square wave generator De power supply		Reg. Co. Electro-Scientifi H/P General Radio Tektronix Certsch H/P H/P H/P Tektronix	931 (50) 3X300C20 250 DA 524JJ 1862B 535A 310A RT-4 300A 202A 200CD 205AG 105 712B			<b>ᲝᲠ ᲝᲠᲝᲠᲝᲠ ᲝᲠᲥ ᲝᲠ</b> Დ					
25 26 27 28 29 30	Ac power supply Pulse generator Recorder Hypot Tube tester power oscillator	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Sorenson H/P Brush Assoc. Res. Mark Sales	500S 212A B1264 JR414 123A M1141		·	0633333					
1 ND - PM	R-8800/136 (REV. 3-61)	Action	Agency: STRATAD			1. SECURITY CLASS	IFICATION			9.	REVISION NO.	C0778

		CTRRACT			TO THE CHARLE OF THE PARTY OF		1. SECURITY CLASS	HEICATION				PAGE	66 .L
1.	+CCT 15	STRIMENT MAI	NTENA	NCE AND CALIBRATION (G	D/A)		-				3.	0ATE 22 00	tober 1962:
1	TEST IF	ASTRONEIL MAI		(4			-				4.	PEPLACES PAGE	<sup>(5)</sup> 560.1
ļ	GRAN TITLE			8. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE	-	B. CONTRACTOR/CON						20/0
5. PRO	506 MARDORE			NONE		06	Aerospace	AF04(69	95)-169	9	Ç.A.	тео 1 Мај	r 1962
-	DANCE HE	2012 2020 2102	N FIF	CIRONIC OR Y. THANICAL	ACASURING INSTR	JMENTS	endocate or a superior at 72 days	12 C	11. ISRATI	ION	113. LO	CATION	14.
I TEM	TANGE US	RANGE OR	1	NAME OF		SERIAL No.	RANGE USER	CYCLE ~	TIME -	IN PLACE		BLDG OF HGR	ACCURACY REQUIRED
NO.	NAME/DESIGNATION	SCALE & UNITS	QTY	MANUFACTURER	HOOF, NUMBER	SCHIAL (A).	CONTROL NO.	יאאיורא	DAYS	YES NO	NO,	OR BH NO.	
31	Do precision voltage source		1	Kintel	301		1	3	1				
32	Voltmeter, thermal transfer		1	Holt instrumental	TVl								
	Wheatstone bridge		1 4	L/N	5300			1			1		
34	Oscillator		1	H/P	205G						-		
35	SHF signal generator		1	H/P	620A						1		
35	Generator, audio signal		lī	H/P	206A .				1	1	1		Į
	Wave analyzer		li	H/P	302A		1				1		Į.
37	Oscilloscope w/scopemobile		li	Textronix	524		1		1				
38			ī	Maxson	1010	-		-					
39	Phasemeter		li	Sensitive Research				1					
40	Potentiometer, Dauphinee		l	Eppley labs	1010						Š.		
41	Standard cell rack			Berkeley	7360			1	1	]	1		[
42	Meter, EPUT		2	Futurecraft	90255			1					#
43	Pneumatic pump		2		120								
	Dead weight tester		1	Rusko Instrument							ł		-
45	Dead weight tester		1	Manning-Maxwell-	1305B100								
46	Power supply		1	General Radio	1116A				Ì			· ·	
47	Signal source		1	FXR Inc	1X772A			•	l				
48	Counter		1	Beckman	7350								
49	Ratio transformer		ī	Gertsch	RT7R						1		l
	Meter calibrator		ī	RFL	829								
50	1	1	ī	Merriam	34EHLOIM			1					
51	Manometer	1	2	Simoson	260 or 269								I
52	Multimeter		4	Triplett	630A								
53	Multimeter		1	Textronix	545						1		
54	Oscilloscope		1		1241			ĺ	1.		1		
55	Signal generator			Maxson	X772A				1	1	l		
56	Signal generator	1	1	FXR							1	1	-
57	RF attenuator		2	Н/Р	X382A				1		Note:	Ttome	l thru 64
	Directional coupler		1	H/P	X752D					1	move:		der cogni-
59	Directional coupler	1	1	Nordson	3003-30			1	1		1		of GD/A
	Frequency meter		1	H/P	X532B				1		1	zance	OI GD/A
61	Coax fixed attenuator		6	Stoddard	95133						1		
62	Power meter		1	H/P	430C		-	1					
63	SWR indicator	Residence of the Control of the Cont	1	H/P	415B			-			*		i .
64	Thermistor		12	H/P	477B								<b>!</b>
						<del></del>	1. SECURITY CLAS	SIFICATION	á w manana	<del>-in-resid</del> ent por	S.	REVISION NO.	
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							1. SECURITY CLAS	SIFICATION	Total America	****		Z. P	AGE ,	66 .2
	TEST I	NSTRUMENT MAI	NTENA	NCE AND CALIBRATION .			į					3. 0		tober 195
							1					4, 5	REPLACES PAGE	(5)
5. P9	OGRAM TITLE			6. PROGRAM REQUIREMENT CODE	7. SYSTEM CODE		8. CONTRACTOR/COM					1	Ortic	inal
	PROGRAM 305			NONE	ĺ	206	Aerospace	AF04(69	95)-16	9		DATE	D 01 11 E	
10.	14. RANGE US	ER'S PRECISIO	N ELI	ECTRUNIC OR MECHANICAL	MEASURING INST	RUMENTS	and State him administration and	12. C	ALIBRAT	(04	13	- LOC/	ATION	14.
ITEM		RANGE OR	1	NAME OF	WODEL NUMBER	SERIAL NO.	RANGE USER	CYCLE -	TIME -	IN PL			SLDG OF HGR	ACCURACY
NO.	NAME/DESTIGNATION	SCALE & UNITS	QTY	MANUFACTURER	MODEL NUMBER	SERIAL NO.	CONTROL NO.	MONTHS	DAYS	YES	NO	NO.	OF BH NO.	REQUIRED
824	Frequency counter		2	Hewlett-Packard	524D			1			$\neg$			
825	Frequency converter		2	Hewlett-Packard	525A			1			.	- 1		
326	Frequency converter		1	Hewlett-Packard	525B			1			Ì			
827	Video amplifier		ı	Hewlett-Packard	526A			ì		1 1				
828	Time interval unit		li	Hewlett-Packard	526B			1	1	1 1				
329 329	Phase unit		2	Hewlett-Packard	526D .			1	l	1 1	- 1	- 1		
				1				-	l					
330	Frequency converter		2	Hewlett-Packard	525C				1	1 - 1		1		
831	Transfer oscillator	-	1	Hewlett-Packard	540B					1 1		- 1	. 1	
332	Variable attenuator		2	Hewlett-Packard	380A			1	1			İ		
333	Differential voltmeter		1	J.C. Fluke Co.	803			İ			- 1			
S34	Precision attenuator		1	Hewlett-Packard	375A	1	1	1				- 1		
335 336	Waveguide coax adapters		8	Hewlett-Packard	S28la					1 1	- 1	- [	I	
336	Pulse generator		2	Hewlett-Packard	212A							1	1	
337	Precision attenuators		1	Hewlett-Packard	355A		1			1 1	- 1			
838	Precision attenuator		1	Hewlett-Packard	355B					1 1			l	
339	Low-power termination		1	Hewlett-Packard	S910A					1 1		- 1	i	
840	High-power termination		1	Hewlett-Packard	S912A	1		1				- 1	- 1	
841	Adjustable shorts		1	Hewlett-Packard	S920A								- 1	
842	Dual directional couplers		2	Hewlett-Packard	767D					1 1	-	- 1	- 1	
843	Crystal, wide-band detector		4	Hewlett-Packard	420A						- 1	- 1		
344	Signal generator		1	Hewlett-Packard	616B							1		
845	Generator, square wave		1	Hewlett-Packard	211A					1 1	1	1	- 1	
846	Power meter, microwave	i	2	Hewlett-Packard	430C						-	- 1	٠ ا	
847	Telemetry oscillator		ī	Hewlett-Packard	200T			<b>l</b> .				-	ĺ	
843	Thermistor mount	•	2	Hewlett-Packard	477E			1			-	1	1	
349	Power resistor decade box		2	Clarostat Mfg	2400					-		1	.	
350	Hickok tube tester		1	Hickol or equiv.	539B						-	1	- 1	
351	Electronic frequency meter		î	Westport Electric	WE-120						1	- 1	1	
عدر ت	and counter		_	westport Electric	ME-TSO								- 1	
852	Step attenuator		١,	C+ - 3 3 3 A 4 C+	90540						1		I	1
			1	Stoddard Aircraft							-		ı	
85 <b>3</b> 854	Power supply		3	Electro Products I							1		1	
U)4	Autotransformer		Τ.	General Radio	WIOMT						1		1	
				i							-		- 1	
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	TEST II	NSTRUMENT MAI	NTENA	NCE AND CALIBRATION								<sup>041€</sup> 22 0c	tober 195
	1531 11	15 (HOMEN) MAT				-						REPLACES PAGE	(5)
5. PR	CGRAM TITLE			6. PROGRAM REQUIREMENT CODE	7 SYSTEM CODE		& CONTRACTOR, CON					Orig	inal
	PROGRAM 206			NONE	1	206	Aerospace		NAME OF TAXABLE			TED	
10.	II. RANGE US	ER'S PRECISIO	N ELE	CTRONIC OR MECHANICAL	MEASURING INST	RUMENTS			LIBRAT	I IN PLACE		CATION	ACCURACY
NO.	NAME/DESIGNATION	RANGE OR SCALE & UNITS	OTY	NAME OF MANUFACTURER	MODEL NUMBER	SERIAL NU.	RANGE USER CONTROL NG.	CYCLE - MCNTHS	TIME - DAYS	IN PLACE		BLDG CP HGP GP BH NO.	REQUIRED
855	Crystal test set		1	Audio Frequency Lab	531						- National Contraction		
856	Tunnel diode tester		1	Texas Instruments	530B			ĺ			1		
857	Video crystal test set		1	Airborne Instru.	393			1			I		
858			1	Airborne Instru.	391			1			1		
859			1	Polytechnic Re- search	904								
860	Calorimetric power meter		1	Polytechnic Re- search	N-680 .			and and and and and and and and and and					
861	DBL stub tuner		1	Polytechnic Re- search	306-A								
862	Directional coupler		1	P.R.D.	432-10		j .				1	]	
863			1	Hewlett-Packard	764D						1		
864	Senior volt-ohmyst	1	5	RCA	WV98C			1			1		
		ĺ	ĺ	Boonton Radio Corp				1		-	1	]	
865	Signal generator		1	Empire Devices	NF-112						1		
867	meter			-					·				
868			1	Harrison Lab	520A					1 1	1		
869			1	Epsco Inc	VR-607		į	1			1	1 1	
870	Diode recovery unit		1	Tektronix	S			i		1 1	1		
871	Preamplifier, low level, ac differential		3	Tektronix	E								
872	Cscilloscope		1 3	Tektronix	545A		İ	1			Ì	1 1	
873	Dual trace do preamplifier	1	3	Tektronix	C-A			1			l		
874	Simpson volt/ohm/ milliammeter		4	Simpson Electric	269					-			
875			3	Tektronix	K							]	
876			3	Tektronix	В.					-			
877	Mobile oscilloscope carts		5	Tektronix	500/53A			1			1	) 1	
878	Vacuum tube voltmeter		3	Hewlett-Packard	400H								
879			2	Alinco Mfg	1015AF						1	1	
019	Igniter tester		_	ATTHEO MIR	TOTAL								
											-		
I MIL PA	R-8800/136 (REY. 3-61)	<u> </u>			<u> </u>		1. SECURITY CLAS	SIFICATION		1	9.	REVISION NO.	
174	(II	D	Acti	on Agency: STRATAD									1
	1/1/	V										/	1/1770

	-	STRUMENT MAI	NTENAM	CE AND CALIBRATION	7. SYSTEM CODE		S. CONTRACTOR/CO		- 2		3.		
PRO	PROGRAM 205			NONE	205		Aerospace	AF04169	95)-169	9	51	TED	
·····	2705192. 200	:p:c 205015:0	V FIF	TRONIC OR VECHANICAL		RUNENTS	- Anna - Managara		ALIBRAT		12. 10	CATION	14.
E.M.	II. RANGE USE	RANGE OR	1		i	1	BANCE USER	CYCLE -	TIME -	IN PLA	CE STA.	BLEG CF HGR	ACCURAC'
c.	NAME/DESTIGNATION	SCALE & UNITS	977	NAME OF MARUF ACTURER	MODEL NUMBER	SERTAL NO.	SONTROL NO.	мотанз	DAYS	YES A	s NO.	CR EH NO.	REQUIRE
3o	Dummy load, electrical resist	or	2	M.C. Jones Elect.	634N			İ					
32	Decade capacitor sets		2	Cornel-Dubilier	386H		1	ĺ	į		.	1	
83	Simpson volt/ohm/milliam-		5	Simpson Electric	260			1	1	1 1	1		
ا ر	meter			*					1		1		
31.	Dual beam oscilloscope		2	Tektronix	555			1			1		
3 E	Time-base unit		2	Tektronix	21.				1		ı		
35 35 37 38	Time-base unit		2	Tektronix	22			1			-		
32			2	Hewlett-Packard	200CD			1			1		
27	Widerange oscillator				476A	ĺ	1	1	į		1		
ಪ್ರಶ <b>ಿ</b>	Eolometer		2	Hewlett-Packard				ļ				1	
39	Voltmeter		3	Hewlett-Packard	410B		1	1	1			1	
90	Multi-hole couplers		2	Hewlett-Packard	S752	į		1			1		
91	Millivoltmeter, rf		3	Hewlett-Packard	411A			1			ì		
92	Clip-on milliameter		2	Hewlett-Packard	428B	-			İ		i		
22	Frequency meter		11	Hewlett-Packard	536A			Ī	1		1		
93 95	Ferrite isolater		2	Precision research				1	ŀ		1	]	
	Accessory probe kit		2	Hewlett-Packard	411A-21G			1			1		•
95			1		105	•		1			1	1	
97	Memo-scope oscilloscope				05-2					1 1	1		
99	Dual trace preamplifier		1					1	1	1 1	1	1	
00	Wide-band preamplifier		1	Hughes Industrial	05-1			1					
01	High gain differential		l i			1		1	Ì		1	1	ĺ
	preamplifier		11	Hughes Industrial	05-3		1		1		1		l
02	Multitracer		1 1	Hughes Industrial	1 .			1			-	1	
03	Dc ammeter		1	Daystron Inc.	901.	i		1			1		l
04	Distortion analyzer	•	ī	Hewlett-Packard	330B		1	1			- [		
05	Ratio meter		ΙīΙ	Hewlett-Packard	416A			1			1	1	
			2	Bird electronic	612			1			1		
05	Termaline wattmeter				43			1			1		
07	Thruline wattmeter		1	Bird electronic	143			1			1		
03	Resistance meter		1	Hathaway instrumen	ts C-OB	İ	1				1	1	
09	Trensistorized regulated		1	Kepco Corp	SM36-15MX			1			1		
	power supply							1			1	1	
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		7.4		DOCUMENTARY PHOTOGRAL	ьнá			1. SECURITY CLASS			7. PAGE 570 3. DAYE 22 OCT	cober 196
5. PRO	CRAM TITLE		PROGRAM 20		6. PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE 206		a. contractor/con Aerospace	tract number AF04(695)-13	59 1	ATED 1 May	
LTEM SO.	11. TFST COOF	12. F	TYPE	ITEM TO	BE VIFWED OR COVERED	mandan sayan asasan masa sana an mananan	LOCATION	15,	P	UPPOSE AND R	FWARKS	
1	A	4x5	B & W and color	Launch area and vehi	cle		PALC II	As	directed by	contractor	r photo per	rsonnel.
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KO-PMi 77	-6-3CG, 2C	(IZ-bl)		Action Agency:	1369th Photo Squar	dron		1. SECURITY CLASSI	FICATION	. j.	REVISION NO.	78

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	OGRAM TITLE	PROGRAM 205	6	, PROG	IRAM REG	utremen III	T CODE:	7. S	STEM TODE	206			Aero	space	VEO7+(	., 695) -	1.59		DATED	1 Ma	y 193	2
	TRIP	LOCA	ALIUN	1							NUMBE	R OF	PASSEN	GERS A	ND QUAR	YTITY	OF CAR	GO/QTR	1954		FY	2000
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	JEST CODE	VAFB/Pt. Arguello	T0	ΝEL X	104	<del> </del>	:		est (					4		2	3	4	1	2	3	$\perp$
			VAFB	X						Ι			us,	_			<u> </u>	1	<del> </del>	<del> </del>	<del> </del>	$\pm$
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<u> </u>	As read	Pt. Arguello	VAFB		3	二	10 p	er te	st					#								二
	1/day	VAFB	Santa Maria and other local towns		0		1000	per	quart	er					5000	5000	5000	5000	5000	5000		E
	3/day	VAFB	Santa Maria	x		=	1000				-		+-		1000	1000	1000	1000	1000	1000		F
7	As reqd	VAFB	MAB	x .			900								900	900	900	900	900	900		E
		Additional require	ments will be place	1 on	VAF	B									·							
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	TEST CODE	FROM	TO	MET	10.	<u>L</u>	1	2	3	4	:	2	3	1 4	1	2	3	4	1	2	3	
1	1 Round	San Diego	VAFB	х		1&3	L	1	<u> </u>		1134	1134	1134	1134	1134	1134						
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	l round	San Diego	VAFB		3						315	315	315	315	315	315						
	trip/day,								<del> </del>	<u> </u>	<u> </u>			ļ		-	<u> </u>		-		ļ	-
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	2 round	Moffet Field	VAFB	x		3				ļ		400						_				_
	trips/ week	(USAF-MATS)								ļ	80	-80	80	80	80	80						<u> </u>
4	To be	GE, Philadelphia	VAFB		3	3					(To	be fu	rnish	ed)							_	$\perp$
	furnished	(USAF-MATS)													•		-		-	-		-
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ND-P† ∂	#R-8800/130 (RE)	/. 3-61) AIN	N									1.	SECUR! TY	CLASSIFI	CATION				9 REVISI	ON NO.		
		いけ	ACTION AG									f						-1		_		

	-		SALVA	GE AND DISPOSITION	√ (ATLAS)		1. SECURITY CLASSIFICATION	2. 405 720 2. 405 720 2. 405 22 October 196 4. 406 22 845 27 720
9. ×e.	TITLE	program 206			NE ONE	SYSTEM COOL 206	Aerospace AF04(695)-169	CATES 1 May 1962
19. 1 TEM NO.	TR. TRST 1405	COMPONENT	WEIGHT- POUNDS	LOC	ATION	Pt Pt	PRPOSE, DISPOSITION, SPECIAL INSTRUCTI	ONS AND HAZARDS
1	As req'd	RSC receivers (2)	11.4ea	Upper pod Sta Sta	· 979 · 1000	Classified ra	nge safety command destruct rec	eivers
2	**	Booster destruct unit	5.7	Next to interm head in upper ment pod, Sta.	(long) equip-		ontains one (1) pound of RDX ex truct unit from outside of pack unit.	
3	,,	Booster thrust structure	6074	Aft section - :	lst stage	Evaluation pu	rposes.	
1	f †	Telemetry transmitter	19.6	In line and for batteries in lo Sta. 1041		Evaluation pu	rposes.	
5	37	GE Mark II airborne guidance equipment Pulse beacon Rate beacon Decorder	9.5 15. 12.9	Short pod, Sta Short pod, Sta Short pod, Sta	. 1065		idance equipment for evaluation purposes	• • •
6	11	Flight control equipment Gyro cannister A/P programmer A/P servo amps A/P rate gyros	81.7 59.4 37.8 11.6	Long pod, Sta. Long pod, Sta. Long pod, Sta. Bump pod, Sta.	1018 1004	Also required  Note: All un	ight control equipment for evaluation purposes  its on this page should be remo A for disposition.	ved and returned
11m2-P::	8-626 <b>6/</b> 141	(REV. 3-61)	Acti	on Agency: PMF	<b>?</b>		I. SELERITY CLASSIFICATION	9. PEV:SION NO.

			SALVA	GE AND DISPOSITION (AGENA)		an to be transported and by	2. Page 750 .1 3 3475 22 October 1962
5. 68	03944 "174	PROGRAM 206		6. SMOORAM REGULAREMENT COCK (1	5164 cone 206 T.3.	Aerospace AF04(695)-169	720.1 May 1962
To. I TEM NO.	TEST CODE	COMPONENT	WEIGHT+ POUNDS	LOCATION		SE. DISPOSITION, SPECIAL INSTRUCTIO	S AND HAZARDS
1	A	Agena-D destruct initiator and destruct charge	9 1bs	Bottom fairing (Sta. 403.0)	Hazardous. Conta Manual disarming prior to removal	ins 1.2 lb. comp. B, and 25 g of destruct unit from outside of unit.	rains of RDX explosive. of package required
2	A	Retrorockets	5 lbs	Fairing at station (Sta.475.0)	Hazardous. Conta	ins 2.25 lb propellant (class	C explosive).
3	A	Engine igniter	0.58lbs	Aft equipment rack (Sta.425.0)	Hazardous. Conta	ins Hercules and Bullseye igr	ition powder.
14	Α.	Transmitter, telemetry	12.78	Forward equipment rack (Sta. 255.14)	Inspection and ev	eluation purposes.	
					NOTE: Items 1 th	crough 4 should be removed and sition.	returned to LMSD
		·					•
11.a)=2:1 181	(+3805) 141	(NEV. 3-61)	Acti	on Agency: PMR		SECURETY CLASSIFICATION .	s. REVISION NO.

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		A THE STATE OF THE	SALVA	SE AND DISPOSITION (SATELLITE VE	HICLE)	TO SECURITY CLASSIFICATION CONTRACTOR CONTRA	2. PATE 770 .2 2. DATE 22 October 196 4. PERLATE PAGE(S)
5. 72	0584W 7176	ı		5. PROGRAM REQUIREMENT CODE 7.	TYSTEM COCE	2. SDN:PACTORYCON*PACE NUMBL3	720.2
-		PROGRAM 206		NOS	206	Aerospace AFC4(695)-169	DATED 1 May 1962
ITEM NA.	TEST CODE	COMPONENT	WEIGHT- POUNDS	Loca (10%)	р	URPOSE. DISPOSITION, SPECIAL INSTRUCTI	ONS AND HAZARDS
1	A	Satellite Vehicle	4050 max	Forward end of Agena-D	187 Sha So1	:  Olb hydrazine  The nitrogen tetroxide  ped charges and squibs, Class B  id rocket engine, Class B  ssurized No and Freon 14 at pres  5000 psi	
					or : lau reco	tion: efforts within reason must be mits parts in case of missile desurch phase following either land overed parts are to be returned Force will support the Navy in	truction during the or water impact. The to GE/ASPD.
					J. Inc All	Torce will support one navy in	arr servage operactions.
				·			
1.0-P:5	: 1-62 <b>66/</b> 141	(AEV. 3-61)	Action A	Agency: PMR and 6595th ATW f	or Note 3.	1. SECURITY CLASSIFICATION	9. REVISION NO.

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	The state of the s				-							1. SECUR	ITY CLAS	SEFECATION			2. 1	PAGE 8:	20
1	SEACRAFT REQU	IREMEN		AUNCH	}												3. (	DATE 22 Oct	ober 196
					,							200.10		TRACT NUM			4.	REPLACES PAGE (S	
5. PROGRAM TITLE PROGRAM 206		6.	NONE	PE OU : REM	FML CUDE	1 7.	978TEH 0	IDF.			Į'				 (695)-16	to.	DATE	ED 1 May	30/0
TO. TYPE AND FUNCTION		<del></del>	NONE				THE STREET	Ivo V				Aerc	space	Aru		1954			1705
Telemetry and Track	ing Ship (Launch)	<u> </u>	1 2	1 -	1	7 5	T 5	7			1 a	10	T 11	1 12	CY	2		CY _	2
11. NO. OF OPERATIONS One per		<del> '-</del>	<del> </del> -	+		+-;-	+	+			-	1 -	<del>  ''</del>	1 12	<del>                                     </del>	+		<del>. 1</del>	2
		+-	-	<del> </del>	+	<del>                                     </del>	<del> </del>		-†		<del> </del>	┼╌┷╌	<del> </del>	1	<del> </del>	+	-+		<del> </del>
12. TOTAL TIME REQUIRED ON STATION 2	16. DESCRIPTION OF OPERATION								15	EQUIPM	ENT TO BE	INSTALL	ED ON SEA	CRAFT	/			station	
To be	In general the ship wi	ill pe	erfor	n the	follo	owing			a)	Sta	ndard	. IRIG	: FM/I	M (21	.5-265 Mo	) recei	ving	station	with
supplied N.M. FROM VAFB	functions:																se f	igure:	4 db;
14. BEARING (True)	a) Receive and record							č¢	2-1			LL-to- LUD ge		rati	o: 18 d	D.			
Flight path approx.	satellite vehicles and extend to appro														: dual	ninela.		hand.	
170-200 peg. FROM north	b) Provide near real t								e,									ternate	vo: 00
15. MAXINEM SPEED	range track data to							ine	a)										together
. 15 k	position and attitu			Th Accret	0 5,401	-5 "±	U11 D11.	1	4,						and yaw		acn	.1115 02.02	ooge me.
13, TYPE AND FUNCTION	And the second s	T		on recover		Or Facilities Street	CY	1							T cv		<u> </u>		
		1	2	3	4	5	6	7		8	9	10	11	12	1	2	_	1	2
11. NO. OF OPERATIONS					1	1	1							<b></b>		1			
12, FOTAL TIME REQUIRED ON STATION						1													
13. MAXINUM RANGE	c) Demodulate, monitor		+		4 m min				17.	EGUIPA	ENT TO B	E INSTALL	ED ON SE	CRAFT	nitouina	05 007		d TIM da	
	to STA a limited nu														write r				let:
N.M. FROM	vehicle functions f														pment.	ecor arri	5 64	arbinenc.	
14. BEARING (True)	(See PRD 230)	OI U	, C 111	01011	o comp	00000	. 0119									emodulet	tina	selected	7
	d) Track 5-position S-	hand	trans	nonde	er in	the		.	11/						real tim		2116	PCTEC CE	4.
DEG. FROM	satellite vehicle.	Dana	OI CILL	ponde	-1 -11	0110		i	i)								e iec:	tory data	a to
TS, MAXIMUM SPEED	2000222200 70112020								-/						isted on			001, 400	
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10. TYPE AND SUNCTION		r											un paterna.	TT.TTT-21-2-1-1			·		
, and the state of			2	3	4	1 5	T E	7	<del></del>	e 1	9	10	1;	12	CY	2	-+	CY T	
11, NO. OF OPERATIONS		<u> </u>		-3-	+-4-	1 2	<del> </del>			-	9	10		12					22
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13. MAKIMUM RANGE	16. DESCRIPTION OF OPERATION	L		<u> </u>		L		$\vdash$	17.	EDUIPM	ENT TO B	E INSTALL	ED ON SEA	CRAFT					
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N,M, FROM								1											
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				DATA	PROCESSING	AND	DISPOS	ITION					•	4. ****** *****************************
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		PROGRAM	206				-	NON		206		l A	Aerospace AF04(695)-169	£ # TEC
: * <u>E</u> + : • 5.	1637 0378	1.	CATA		11. REFERS	17EM	CRIG.	CYS	is. Fina	L RECIPIENT	7/VE REQ*5.		DESIRED DATA PRESEN	TATION & REMARKS
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¢ 129	GRAM *111.E			6. PROGRAM	9E QU :	REMER	3500 T	1	STEM CODE			1	200								.010	
			IAM 206	NONE		- Allendari	-		206			1	ercs	ace A	F04(6	595 <b>)-</b> 1	6)		SATES	1 Ma	y 196	2
10.	TF,	1 .	11.	14,	15.	Ţ	) i i i i							SCH	EDULE							
NO.	TEST	NO I	TYPE OF FACILITY	SITE DESIRED	GNED		FΥ			rv ]	963		1	FΥ	1961	ļ		FY	pro-mary	KOMIKOHOLKIKI	FY	
	*	LOCA			1881	NE X	2 -	CY 2	1962	i 4	-	çv :	196	3-4-	-		190	54		CV 1	1 3	1 4
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2	ous V	AFB.	Missile assembly building	MAB 5 VAFB		χļ	<u> </u>	<u>i                                     </u>	<u> </u>	<u>i                                      </u>	<u> </u>	X	L Y	X	x	<u>; y</u>	ļ	ļ	4			
	use	1_	adm.space,labs, /O area		4-1	_				i.	<u> </u>			<u> </u>		ļ	ļ	<u> </u>			ļ	<u> </u>
3-		AFE	GE Mod II guidance sta	VAFB	X	+	+	+	<del> </del>	<u> </u>	X	-X	1 7	Y	X	<del>  X</del>			dequa ties			faci
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	DRAWINGS - FACIL	ITIES			3. DATE	22 October 196
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s. Program fitte PROGRAM 206	6	PROGRAM REQUIREMENT CODE NONE	7. SYSTEM CODE	Aerospace AF04(695)-169		1 May 1962
10, DRAWING OF LAUNCHER	1	TOURE	200	Aerospace Aro4(095)-109	1	A PRAY 1902
10, Entwind OF Examples						WELFERDICES (OI 92/1/95)
Reference: Kaiser Engineers A & E	drawings prepar	ed for Department	of the Air Force, Air	Force Ballistic Missile		
Reference: Kaiser Engineers A & E Division (ARDC), Launch Complex No	. 2, Point Argue	llo, California	:		l	
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						1. SECURITY CLASSIFICATION		2. PAGE 1020		
		LAUNCH FACIL	ITIES			www		3. DATE 22 October 196		
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S. PROGRAM TITLE		1	6. PROGRAM REGUIREMENT CODE	7 SYSTEM CODE		8. CONTRACTOR/CONTRACT NOVSER		1020		
PROGRAM 2	206		NONE	206		Aerospace AFO4(695)-	169	DATED 1 May 1962		
						OF LAUNCH OPERATION		Taktola of the San San San San San San San San San San		
	LAUNCH	PAD/PLATFORM			The missile arrives at the pad on a missile handling traile					
IO. TYPE	en en en e		II. SIZE		The launcher and erector trunnion are rotated to mating pos-					
LAND/STATI	IONARY		See Item 14		tion. The missile service tower is positioned over launche					
12. LOCATION			13. SIMULA	ATOR	platforms in the clear. Missile and trailer fasten to launc and trunnion and hoists are connected to the front of trail Missile and trailer are hoisted to vertical, the trailer is					
			A. TYPE B	. GFE/CFE						
Fixed by a	approved AGE drawing	gs .	N/A	N/A						
14. DESCRIPTION OF LAUNCH PAD C	DR PLATFORM		71.9 00	sook side of		nd lowered to pad, and				
The launch and service building is approximately 148 x 99 ft. On each side of						also is removed.				
the building are concrete apr as 90 x 100 ft and 80 x 130 ft, where IO2 and fuel are stored. The service tower tracks are on a concrete runway about 80 f						mes unless in stretch.				
fuel are stored.	The service tower	tracks are on	a concrete runw	ay about ou i		rical power are connect				
wide with tracks	60 ft apart. The v	waste channel	downstream of th	e concrete, or		for launch, Atlas is f				
	ctor is 40 ft wide i	for 240 feet w	ith a 60 x 70 ft	retention		ninutes. It can be law		diately or placed in		
basin at the end.	•				a "hold" o	condition for one hour	maximum.			
Reference Kaiser	Engineers A&E draw	wings prepared	for Department	of the Air				-		
	Ballistic Missile I									
Point Arguello, (			• • • • • • • • • • • • • • • • • • • •							
						DE POSITIONING METHODS AND EQUIPMENT				
LAUNCHER						required to position 1				
15. TYPÉ	16. SIZE Length 22!	17. WEIGHT	18, GFE/CFE	***************************************		mes, 2 jig transits, 2				
Hold Down	width 16',ht 16'	58,000 1ъ	CFE		transits,	measuring tapes and so	cales, and t	timbers. Ten to		
		<u> </u>			fifteen me	n with steel pry bars	will also }	be required. The		
LAUNCHER CHARACTERISTICS	AZIMU	JTH	ELEV	VATION		s moved into approxima				
	19,		20.		placed on	timbers, and positione	ed accurate?	ly using transits.		
ATTITUDE	Level on 1850	+mie	900			upport positions are s				
	LEVEL OIL 10)	OT WC	22.		secured to	the concrete pad. The	ie launcher	is then lowered		
POSITION ACCURACY (DESIRED)	Not availabe		Not ava	ilahla	and bolted	to the supports, timb	ers are rer	noved, and the		
POSTITION ACCORACT (DESTRED)	NOC AVAITABLE		24.	III .	launcher i	s leveled by adjusting	g the launch	ner supports.		
			***							
POSITION ACCURACY (REQUIRED)	Not available		Not ava	llable		•				
	n assembly of welde	ed tubular stee	el designed to r	otate 90	[	*				
	the missile and mi					5.1				
	The launcher suppo									
	inserted pins and t									
	lle in 60-mph winds.									
	ement unlocks the pi									
	ase cylinders are ve									
missile accelerat		encen as a she	1000 00 00	110101 11110101						
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APPENDIX 33

ORBITAL REQUIREMENTS DOCUMENT

REPORT N 1 TOR-460,5160).2

## (U) Program 206 Orbital Requirements Document

1 JUNE 1965

Prepared by PROGRAM 206 OFFICE AEROSPACE CORPORATION El Segundo, California

Prepared for SECRETARY AIR FORCE SPECIAL PROJECTS
1.0S ANGELES AIR FORCE STATION
Los Angeles, California

Report No. TOR-469(5101)-2

## LIST OF EFFECTIVE PAGES

Total number of pages in this publication is 91, consisting of the following:

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040	620.5	830.1
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Report No. TOR-469(5101)-2

## FOREWORD

Program 206 orbital requirements were originally set forth in Aerospace Corporation Report No. TOR-930(2123)-2, Volumes I and II. These reports were subsequently revised several times to include changes and updated material. The present report supersedes and replaces these volumes and their revisions.

FROCRAM 206  PRECEDENCE ARTING   1. PRIGRITY   12. CONTRACT NUMBER   1. FIRST PASS DATE:   14. EAPECTED SATELLITE   15. PROGRAM 206  PRECEDENCE ARTING   17. PRIGRITY   12. CONTRACT NUMBER   12. July 1963   14. EAPECTED SATELLITE   15. PROGRAM AGENCY   16. MANAGEMENT AGENCY   17. AUTHORITY (REFERENCES)  a. Air Force Message AFCVC, 26 September 1961, b. Outline Development Flan, Frogram 403A, 9 November 1961, SSZX-1 c. Air Force Letter AFSW-RD, dated February 19, 1962  b. Outline Development Flan, Frogram 403A, 9 November 1961, SSZX-1 c. Air Force Letter AFSW-RD, dated February 19, 1962  c. Air Force Letter AFSW-RD, dated February 19, 1962  l. REMANCE  (1) Aerospace Comporation - AF Out(695)-169 (2) Ceneral Electric Co AF Out(695)-155 (3) General Electric Co AF Out(695)-156 (6) Space Technology Laboratories, Inc AF Out(695)-185 (7) Space Technology Laboratories, Inc AF Out(695)-622 (8) Lockheed Missiles and Space Company - AF Out(695)-93  PROGRAM MANAGER (CONTRACTOR)  PRO	APPRO	OVAL AUTHORITY		I. SECURITY CLASSIFICATION	2. PAGE 010 3. DATE JUNE 1965 4. REPLACES PAGE(S)
1-1 A-1 See Box 18 12 July 1963 Life: 5 days SAFSP Aerospace Corporation 7. Authority (REFERENCES) a. Air Force Message AFCVC, 26 September 1961 b. Outline Development Plan, Program M33A, 9 November 1961, SSZX-1 c. Air Force Letter AFSMP-RD, dated February 19, 1962  1. REMARKE a. Not releasable to Foreign Nationals. b. Contracts:  (1) Aerospace Corporation - AF 04(695)-469 (2) General Electric Co AF 04(695)-155 (3) General Electric Co AF 04(695)-155 (4) General Electric Co AF 04(695)-156 (6) Space Technology Laboratories, Inc AF 04(695)-262 (8) General Electric Co AF 04(695)-80 (9) General Electric Co AF 04(695)-80 (9) General Electric Co AF 04(695)-93  DOCUMENT RELEASE  20. MANAGEMENT AGENCY APPROVAL  PROGRAM MANAGER (CONTRACTOR)  PROGRAM MANAGER (CONTRACTOR)  PROGRAM MANAGER (CONTRACTOR)  PROGRAM MANAGER (CONTRACTOR)  PROGRAM MANAGER (CONTRACTOR)  PROJECT CHIEF BPONSORING AGENCY)  William G. King, Jr. Col USAF Deputy Director Program 206 Aerospace Corporation	PROGRAM 206	NONE	75664014	Aerospace Corp/AF 04(695)-	469 DATED
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J. D. Sorrels Systems Engineering Director Program 206 Aerospace Corporation  William G. King, Jr. Col USAF Deputy Director,		20.	MANAGEN	MENT AGENCY APPROVAL	
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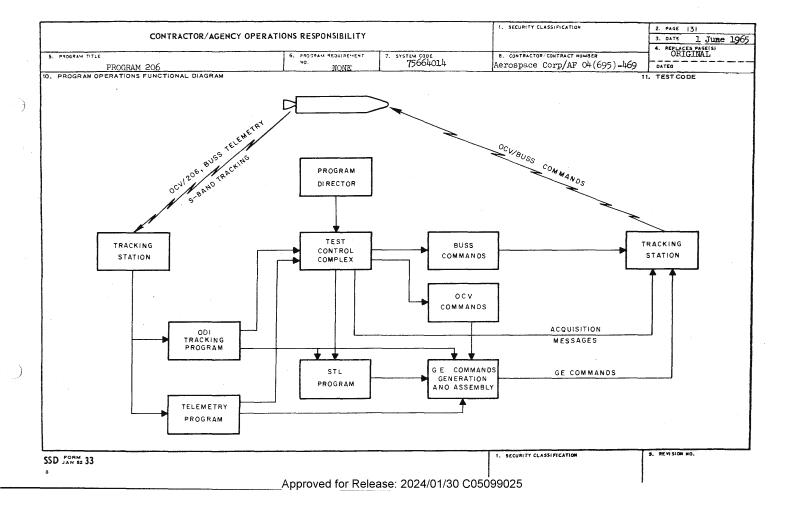
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5.	PROGR	AM TITLE		6. PRO	GRAM REQUIRE	4ENT	7. 5	SYSTE	EM CO	DE		8. CONTRACTOR/CONTRACT NUMBER	ORIGIN	GE(S) ΔT.		
		PROGRAM 2	206	NO.	NONE					1014		Aerospace Corp/AF 04(695)-469				-
				L		Lie					12.	13.	14.	15.		
10.		12 ADDITIONAL PAGE NO.	PAGE TITLE		PAGE DATE	-	CLAS	s U		PAGE. NO.	ADDITIONAL PAGE NO.	PAGE TITLE	PAGE DATE	5	L AS	~
⇉			SATELLITE INFORMATION SYSTEM			<del>                                     </del>			x	851	<b> </b>	ADJUNCT OPERATIONS - METEOROLOGICAL	1	_		1
4	641		SATELLITE MEASUREMENTS - ENVIRONMENTAL	STATUS		1				w		MEASUREMENTS				
_	642		SATELLITE MEASUREMENTS - EQUIPMENT STATU			<del>                                     </del>			$\neg$					<b>!</b>		$\Box$
x	640	hru 640.9	SATELLITE MEASUREMENTS - SYSTEM REQUIREM	ENTS												
-				·····								DATA PROCESSING		1		
x	620	hru 620.5	TELEMETRY TRANSMISSION CHARACTERISTICS			1			x	910	910.1	GENERAL DATA PROCESSING REQUIREMENTS				
	630		SPECIAL STATION TELEMETRY RECEIVING			1			х	911		DATA FLOW SYSTEM				
×			REQUIREMENTS					1	x	9 20 +1	ru 920.3	DATA DISTRIBUTION				Γ
x	610		GENERAL INFORMATION SYSTEM REQUIREMENTS						-							
х	611		DATA TRANSMISSION FORMAT													
x	612	612.1	System Description: OCV TM; BUSS (	Contro	1				${\times}$			FACILITIES AND LOGISTICS				
	643		SATELLITE MEASUREMENTS - PAYLOAD						х	10 10		CONTRACTOR ASSIGNED FACILITIES				
_	850		PAYLOAD READOUT SCHEDULE			<u></u>				10 20		AIRCRAFT SUPPORT				
_						ļ			х	10 30		CONTRACTOR OPERATIONS PERSONNEL				
- /						ļ		-	-			SCHEDULE				<b></b>
$\times$	ļ	-	COMMAND SYSTEM			-	-	_	_							
X	710	710.1	GENERAL COMMAND REQUIREMENTS			<u> </u>										
	720		COMMAND METHODS			ļ		-								
X.	730	710.36	SPECIAL COMMAND CAPABILITY REQUIREMENTS			↓		-	$\rightarrow$							
х		nru 740.1.	Primary Command Format				$\vdash$		$\simeq$	1110		REFERENCES PROGRAM KEY PERSONNEL				
Š	750	150.12	Backup Stability and Command Syst	Lem_		-			X	1120		TECHNICAL REFERENCES				
$\hat{\hookrightarrow}$	8 10	1	TRACKING NET OPERATIONS REQUIREMENTS			┼			<del>*</del>		1130.1	DEFINITIONS - SPECIAL	<del> </del>			
-	820		COMPUTER SYSTEMS - PROGRAMMING			<del>                                     </del>	-	$\rightarrow$	^	1131	T	DEFINITIONS - ABBREVIATIONS			-	
			REQUIREMENTS	İ		l		'							-	
	821		COMPUTER SYSTEMS . TOTAL SYSTEM DESCRIPTION		4			7	1							
П	8 2 2		COMPUTER SYSTEMS - SPECIAL EQUIPMENT REQUIREMENTS					十	#						_	
x	830	830.1	COMMUNICATIONS - GENERAL CRITERIA	,		-	$\vdash$	$\dashv$							-+	-
r <del>, H</del>	831	- 30.2	COMMUNICATIONS - SYSTEM DESCRIPTION			$\vdash$	$\vdash$		-			A STATE OF THE STA	<del>                                     </del>	-+	-+	
<u></u>	832		COMMUNICATIONS - RECORDINGS				-+	-+	-							$\dashv$
x	840		SYSTEM TIMING - PROGRAM FUNCTIONAL			<del> </del>	$\vdash$	-	$\dashv$					-+	-+	$\dashv$
^			TIMING REQUIREMENTS					r	-							$\neg$
x	841		SYSTEM TIMING - DESIGNATIONS AND ACCURACIES					F	$\dashv$					$\dashv$	$\dashv$	$\exists$
x	842		SYSTEM TIMING - SUGGESTED CODE METHODS					1	$\neg$						$\neg$	$\neg$
x	850		ADJUNCT OPERATIONS - TEST ANO/OR DEVELOPMENT REQUIREMENTS					-	-					-	$\dashv$	$\exists$
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SECU	RITY CLASSIFICATION	OF	SUB	JEC	TMATTER			-		3.	DATE	1 June 196
		Y									REPL	ACES PAGE(S)
. PROGRAM TITLE			PROG NO.	RAM	REQUIREMENT	7. 3	SYSTEM CODE	8. CONTRACTOR/CONTRACT NUM		_		RIGINAL
PROGRAM 206		<del> </del>		NOI			75664014	Aerospace Corp/AF 04(6			ATED	
). ITEM		5		URIT	Y CLASSIFICA OTHER	TION	10.	ITEM	11 S			CLASSIFICATION OTHER
. ORBITAL PROGRAM		1	1_				X. DRAWINGS, SKETCHES, PHOTOGRAPHS, EXTERNAL OR INTERNAL			+	† -	
, PRIME CONTRACTOR (CONNECTION WITH	PROGRAM)	T					VIEWS, AND DESIGN I	NFORMATION. (INCLUDING ENGINE	ERING	1		
LISTS OF CONTRACTORS, ASSOCIATE CON	TRACTORS AND/OR SUR-	1		П			NOTES, COMPUTATIONS AND MODELS OR MOCK-UPS RELATIVE			1		
CONTRACTORS ON TEST PROGRAM	, , , , , , , , , , , , , , , , , , ,		1	T			TO SYSTEMS OF SATELLITE)					
D. PRODUCTION, PROCUREMENT, AND SUPP	LY INFORMATION	T	1	T			(I) PAYLOAD SYSTEM	*				
E. TITLE OF SATELLITE PROGRAM Pro	gram 206		T	T			(2) CONTROL SYSTEM	S (ATTITUDE/ORIENTATION)		1		
	e Vehicle)	T	1	1			(3) ORBITAL CORREC	TION SYSTEM		1		
G. ORBITAL DESIGNATION		1	T				(4) SATELLITE STRU	CTURE				
H. CONFIGURATION		i	T	T			(5) EJECTABLE/REC	OVERY OBJECTS		1		
(1) EXTERNAL		ì	1	1			(6) FUNCTIONAL SYS	TEMS		T		
(2) STRUCTURAL		1	T				(7)			T		
(3) INTERNAL		1		$\top$			Y. OPERATIONAL CONCEPTS					
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I. PHYSICAL DIMENSIONS		+-	T	1			AA. INSTRUMENTATION (INTERNAL)					
J. VELOCITY AND ALTITUDE		İΤ	$\top$	$T^-$			88. INSTRUMENTATION (EXTERNAL)			1	i	
K. COUNTERMEASURE INFORMATION, PROV	EN AND UNPROVEN	†	†	1	TS		CC. TRAINING EQUIPMENT			T		
L. FIRST PASS DATE		+	+	1			DD. GROUND SUPPORT EQUIPMENT			1	1	
M. EXPECTED LIFE		+-	†	$\dagger$			EE. RAW DATA			T		
N. STATUS AND PROGRESS REPORTS		1	+	1			FF. REDUCED DATA			$^{+-}$		
O. TEST AND PERFORMANCE INFORMATION		+	+-	+			GG. TECHNICAL PUBLICA	TIONS		t-	$\vdash$	
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V. TRACKING AIDS	DESCRIPTION	+-	$\vdash$	├								
W. MISSION OBJECTIVES		+	+	t								
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				1. SECURITY CLASSIFICATION	2. PAGE 110
	PROGRAM MIS	SSION			3. DATE 1 June 1965
					4. REPLACES PAGE(S)
5.	PROGRAM TITLE	6. PROGRAM REQUIREMENT NO.		8. CONTRACTOR/CONTRACTOR NUMBER	ORIGINAL
	PROGRAM 206	NONE	75664014	Aerospace Corp/AF 04 (695)-469	DATED
10	MISSION AND/OR BASIC PURPOSE OF PROGRAM				-
					. :
	Support of a classified space progra	sum (U).			
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	á .				
11	. PURPOSE OF EACH SATELLITE				
		*			•
	/a a a \			1.11	
	(1-10) To develop and demonstrate		ing an accurate or	bit and accomplishing calldown and	accurate
	impact at a preselected poin	nt.			
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	WANTE CONTROL OF THE PROPERTY			1. SECURITY CLASSIFICATION	9. REVISION NO.
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	ttg	PROGRAM OBJECT	IVES		_ #1.09000,,	1. SECURITY CLASSIF	CATION	2. PAGE 120 3. DATE 1 June 1965
	RAM TITLE	06	5. PROGRAM REQUIREMENT NO. NONE	7. SYSTEM CODE 75664014		8. contractor/contract Aerospace Corp,		4. REPORTGINALE(S) DATED
ITEM NO.	TEST CODE	12. TEST AND PERFORMANCE OBJEC	TIVES	13. RESPONSIBLE AGENCY	14. ORBIT	/PHASE REFERENCE	15. PURPOS	E AND REMARKS
	Annual Control of the	Refer to "Program 206 System Test definition of program test and per objectives.	Plan" for formance					
		Refer to "Program 206 System Test definition of test and performance each flight vehicle.						
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	an percendado de quando constituido de la constituido de la constituido de la constituido de la constituido de							
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	CONTRACTOR/AGENCY PROG	RAM S	UPPORT RESPONSIBILI	TIES	I. SECURITY CLASSIFICATION	2. PAGE 130  3. DATE 1 June 1965  4. REPLACES PAGE(S)	
5. P90	GRAM TITLE		6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CONTRACTOR CONTRACT NUMBER	ORIGINAL	
	PROGRAM 206		NONE	75664014	Aerospace Corp/AF 04(695)-469	DATED	
TEM NO.	11. CONTRACTOR/AGENCY	TEST CODE	13. BASIC RI	ESPONSIBILITY	14. LIST OF PRIMARY RESPONSIBILITIES		
1			Program Managemen	nt.			
2	Aerospace Corporation		General Systems I Technical Direct:		·		
3	General Electric ASPD		Satellite Vehicle	e.			
l <sub>‡</sub>	Hq Space Systems Division, SSO		Satellite Control Re-entry Support	l Facilities and			
5	6594th Aerospace Test Wing		On-Orbit and Re-	entry Operations			
6	Space Technology Laboratories, Inc.			on as necessary for , orbit selection and			
7	Lockheed Missile & Space Company		206 S-01B vehicle	֥		· ·	
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ير. 5D آر	ORM 82 32				1. SECURITY CLASSIFICATION	9. REVISION NO.	



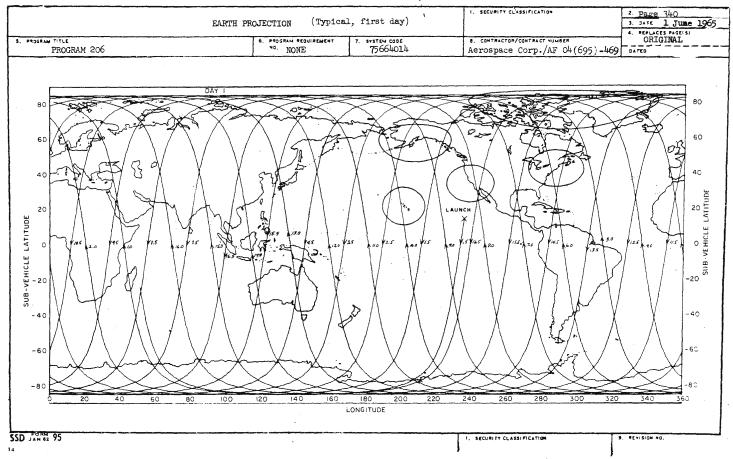
	PROGRAM SUMMARY - FUNCT	IONAL DESCRIPTION			1. SECL	JRITY CLASSIFICATION	2. PAGE 149. 3. DATE 1 June 196
PROGRAM TITLE	M 206	6. PROGRAM REQUIREMEN NO. NONE	7. SYSTEM CODE 75664014			RACTOR/CONTRACT NUMS - P	4. REPLACES PAGE(S)  U.IGINAL  DATED
O. ITEM	PROGRAM IN-ORBIT OPERATION (SATELLITE AND GROUND SUPPORT FU		ORBIT PHASE		NOITA	14. PURF	POSE
1 Te	elemetry and tracking during orbit i	njection.	Ascent	Prelaun orbit injectio		Establish initial orb	it conditions.
re	acking station contacts, tracking, a adout at each station commanding, a STC.		On-orbit	All star passes a applical	as	Supply tracking, telescapability to assure provided control.	
3 Or1	bit computation and command generat	ion by STC.	On-orbit	Continue during operation		Assure adequate SV con	ntrol
	bit corrections in vehicle as comma mmands inserted.	nded by	On-orbit	As requ	ired	Maintain satisfactory	orbit conditions.
5 Pro	eparation for and execution of RV D	eboost Maneuver	End of orbit	At requitime for RV re	r prop-		e-entry Operations
δ Tr	acking and telemetry during re-entr	у	Re-entry	During re-entry	У	Allow recovery of cap	sule.
7 Ba	ck-up Stabilization and Command Sys	tem.	Re-entry	At requitime for re-entry	r	Provide secondary systabilization and re-commands.	
8 Te:	lemetry and tracking during OCV sol	o operations.	Post re-entry (OCV on orbit)	All stat passes a applicat	as	Post-separation satel:	lite operations.
9. Pre	eparation for and execution of OCV I	Deboost Maneuver	End of flight	At required time for satisfactory OCV debo		deboost operations.	
SD FORM 34		I		<u> </u>	1. SECUE	RITY CLASSIFICATION	9. REVISION NO.

ORRITAL VEHICLE DESCRIPTION				1. SECURIT	CLASSIFICATION	2. PAGE 210		
	ORBITAL VEHICLE DESC	CRIPTION				3. DATE 1 June 1965		
						4. REPLACES PAGE(S)		
S. PROGRAM TITLE	6.	PROGRAM REQUIREMENT NO.	7. SYSTEM CODE		TOR/CON TRACT NUMBER	_ORIGINAL		
PROGRAM 206	1	HOME	75664014	Aerospuc	e Corp./AF 04(695)-469	DATED		
10. SATELLITE GEOMETRY						TEST CODE:		
See Figure 2-1, <u>Inboar</u> Program Plan (GE Docum DIN 63SD4849, 6 Decemb	ent No.							
•								
						•		
11. CONSTRUCTION	12. STABILIZATION			13	TRACKING AIDS:			
A TYPE:	A ORIENTATION DETERMINA	ATION SYSTEMS:	*	۱,	T/M TRANSMISSION: *			
Monocoque	IR and Orbital Ra				FM/FM	248.6 Mc		
_	III dila di biodi ila	00 501101116		l _	FM/FM BEACON TRANSMISSION:	258.5 Mc		
B MATERIALS				] "	S-Band Beacon Receive	er 2850 Mc		
Aluminum	***************************************			1	Beacon Transmi			
	8 ORIENTATION CORRECTI	ON TECHNIQUES:		1.		L)LO NC		
	Cold Gas (freon)			1	REFLECTORS:			
	C ATTITUDE CONTROL SYS	STEM:			OTHER:			
	Integrating Gyro	System		{	*See notes on pages ( for use of these fre			
	D SPIN RATES:							
	None; Vehicle sta	bilized im orbit	:	1				
508W 80	, ,,,,,, venicie boa	DIMIDUA IM OIDIO	,	1. SECURIT	Y CLASSIFICATION	9.		
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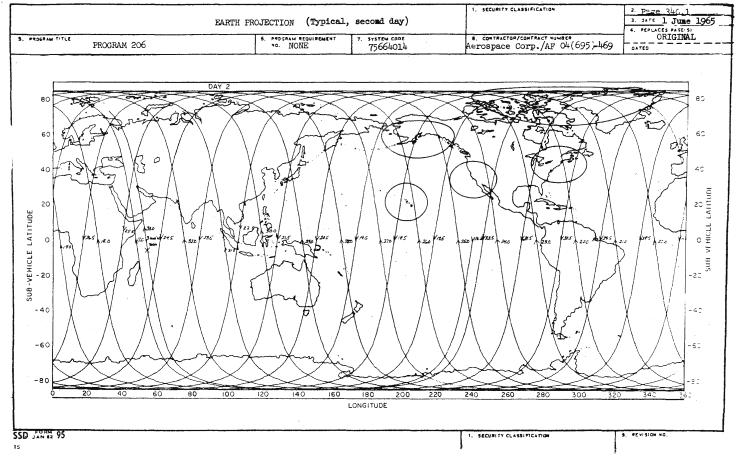
ORBITAL VEHICLE PERFO	RMANCE CRITERIA		1. SECURITY CLASSIFICATION	2. PAGE 220 1. 0 1 June 1965
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	B. CONTRACTOR/CONTRACT NUMBER	ORIGINAL
PROGRAM 206	*0. NONE	75664014	Aerospace Corp./AF 04(695)-46	han an an an an an an an an an an an an a
10. SATELLITE SYSTEM CAPABIL:TIES  A. SYSTEM PERFORMANCE, FULL RATING:  Altitude Range - 75 to 400 nautical miles Period Range - 87.5 to 89 minutes Inclination Range - 80 to 130 degrees Near Circular Orbit Eccentricity Range - 0 to 0.045		Í	orbit in flight.	TEST CODE:  mpact as back-up.
B. BACKUP SYSTEMS:  Back-up Stabilization and Command Subsyst  C. RESIDUAL CHARACTERISTICS:	cem (BUSS)	EFFECTIVE MISS RESIDUAL SYSTE SCHEDULED DEC	ME IN ORBIT  LIFE, FULL RAYING: 5 days  JON LIFE: 5 days	ver use)
None			at selected times after 1 orbit	9. REVISION NO.
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			1. SECL	RITY CLASSIFICATION	2. PAGE 310				
O NOITATINI	ORBIT				3. DATE: 1 June 1965.				
					4. REPLACES PAGE(S)				
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CO11	RACTOR/CONTRACT NUMBER	ORIGINAL				
PROGRAM 206	NONE	75664014	.teros	pace Corp./AF 04(647)-469	PATED				
10. ORBITAL INJECTION CONDITIONS According to output of orbit selection module A. INJECTION POSITION, GEOCEMPRIC	11. ORBITAL ADJUSTMEN According to Mis A. SCHEDULE OF ADJUS	sion Planning S		12 ORBIT CORRECTION METHOD	s 13. TEST CODE ystem receives				
ANGLE OF RIGHT ASCENSION (LONGITUDE)	NUMBER PER SATELL	.ITE:		capability input: and					
ANGLE OF DECLINATION (LATITUDE):	ORBITAL TIMES:			ments input and compu					
RADIUS	PERIODS REQUIRED:			justment that meets the greatest number					
	PURPOSE:			of mission objectives.					
B. INJECTION VELOCITY				are assembled and tran					
ANGLE OF VECTOR WITH EARTH RADIUS:				the commanding tracking					
ANGLE WITH LONGITUDE:	B. ORBITAL POSITION, O			transmission to the CC					
ANGLE WITH LATITUDE:	1	SECCEMENT POINT		stores, and executes th					
SPEED:	OF ADJUSTMENT:			proper times. Orbit a					
C. SIDEREAL TIME OF INJECTION	LATITUDE			complished by adding po					
C. SIDENEAL TIME OF INJECTION	RADIUS			velocity increments al					
·	RADIUS		•	velocity vector. Adjus					
				made at perigee during					
				revolutions.	phocitien				
	C. ORBITAL CORRECTIO			revoracions.					
D. SUPPLEMENTARY REQUIREMENTS	RATE OR TIMING:	THE STATE OF THE S			1				
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	CHANGE IN INCIDENC	E ANGLE-OF THE			· I				
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INITIATION OF	FORBIT			JRITY CLASSIFICATION	2. PAGE 310.1. 3. DATE 1 JUNE 190 4. REPLACES PAGES		
PROGRAM 206	6. PROGRAM REQUIREMENT 7. SYSTEM CODE NO. NONE 75664014			TRACTOR/CONTRACT NUMBER DSPACE AF 04(695)160	ORIGINAL		
10. ORBITAL INJECTION CONDITIONS	11. ORBITAL ADJUSTMEN			12 ORBIT CORRECTION METHOD	S 13. TEST CODE		
A. INJECTION POSITION, GEOCENTRIC (nominal)  ANGLE OF RIGHT ASCENSION (LONGITUDE) 124,280  ANGLE OF DECLINATION (LATITUDE): 14.345°N  RADIUS 21,486,435 ft  B. INJECTION VELOCITY (nominal)  ANGLE OF VECTOR WITH EARTH RADIUS: 0.0574 deg  ANGLE WITH LONGITUDE: 185.83 deg	A. SCHEDULE OF ADJUS NUMBER PER SATELL ORBITAL TIMES: PERIODS REQUIRED: PURPOSE:	_		See Page 310			
ANGLE WITH LATITUDE: SPELD: 25,650 fps C. SIDEREAL TIME OF INJECTION	B. ORBITAL POSITION, G OF ADJUSTMENT: LONGITUDE LATITUDE RADIUS						
Noon (nominal)							
D. SUPPLEMENTARY REQUIREMENTS  NOTES: 1) This information pertains to the early Block II vehicles	C. ORBITAL CORRECTIO RATE OR TIMING: ELLIPTICAL CHANGE						
2) Although not a part of Program 206, a GFE package will be injected as a separate satellite by the Agena 206/S-01A vehicle following separation of the OCV from the Agena (on selected flights). Appropriate weight, CG, and aerodynamic drag corrections for the launch and ascent computations are required in connection with this package, and are an integral part of the LMSC Mass Properties report.	CHANGE IN INCIDENC ORBITAL PLANE:	E ANGLE-OF THE					
						•	
SSD JAN 62 42			1. SECUI	RITY CLASSIFICATION	9. REVISION NO.		



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1 A	PROOF	RAM 206  12. MEASUREMENT AND INTERVAL TAKEN  80-135 n mi, 1st orbit	DATA REQUIRED Azimuth Elevation Range	6. PROGRAM REQUICED NONE  14. LOCATION  LONG. LAT.  One per four seconds			Aerospace Co	Ephemeris determ early orbit dete	REMARKS ination for an
1 A	TEST CODE	MEASUREMENT AND INTERVAL TAKEN  80-135 n mi, 1st orbit .  80-135 n mi, all station	DATA REQUIRED Azimuth Elevation Range	NONE  14.  LOCATION  LONG.  LAT.  One per four	CLASSI  Noise 1 mr rms, bias 1 mr 1 σ; noise 200 ft rms, bias	ATA ACCURACY		PURPOSE &	REMARKS ination for an
1 A	A,B	MEASUREMENT AND INTERVAL TAKEN  80-135 n mi, 1st orbit	DATA REQUIRED Azimuth Elevation Range	LOCATION LONG. LAT. One per four	Noise 1 mr rms, bias 1 mr 1 \(\sigma\); noise 200 ft rms, bias			PURPOSE &	ination for an
	۱,B	. 80-135 n mi, all station	Elevation Range		rms, bias l mr l o; noise 200 ft rms, bias				
				1	1			1	
2 A		passes	Azimuth Elevation Range	One per four seconds	Noise 3 mr rms, bias 3 mr l σ; noise 200 ft rms, bias 125 ft l σ.			for orbit mainter control and orbit	ination and prediction mance through correct t adjustment as re- on accomplishment.
3 A		135-50 n mi, re-entry pass	Azimuth Elevation	As available				To allow detection performance.	on of nominal
SSD 50	RM //			L	L		1. SECURITY CLASS	FICATION	. REVISION NO.

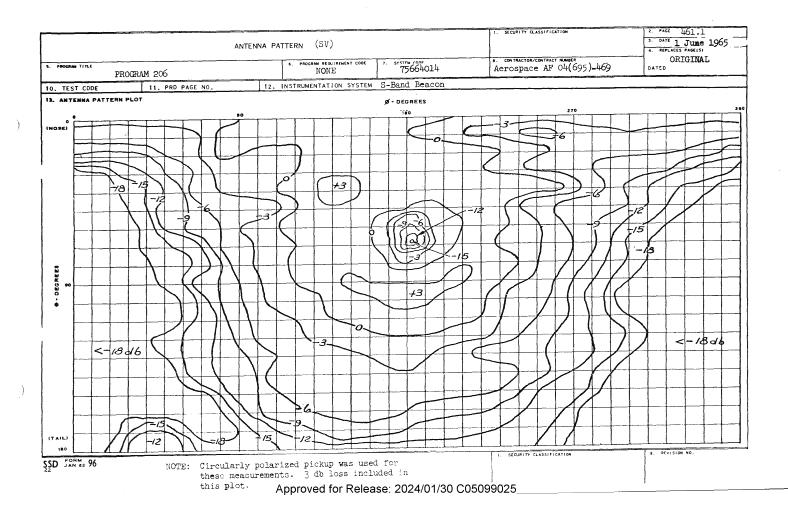
			1. SECURITY CLASSIFICATION	PAGE 420
TRACKING SYSTEM	REQUIREMENTS			1 June 1965
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CONTRACTOR/CONTRACT NU TO	ORIGINAL
PROGRAM 206	NO. NONE	75664014	Aerospace Corp./AF04(695)-469	DATED
10. SATELLITE TRACK METHODS	<del></del>	11. SPECIAL TRACKING	NET REQUIREMENTS	
			•	
	rt or Prelort Radar etry Angle	A, EQUIPMENT		
		-		
		B. OPERATING		
		S. O. ERATING		
12. SPECIAL STATION CAPABILITIES		C. OVERALL CAPABILI	TIFS	
	*	Si O VEILAGE GAI ABIE!		
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			PI	ROPOSED T	RACKING S	ITE LOCATIONS					432 1 June 196
. PRO	068AM TI	T1 F				6. PROGRAM REQUIREMENT	7. SYSTEM CODE	-	8. CONTRACTOR/CONTRACT NUMBER	4. REPLACE	es page(3) ORIGINAL
		PROGRAM 20	6			NO. NONE	756640		Aerospace Corp./AF 04(695)-469	DATED	MITGHER
). Em	11. TEST	12 STATION	13. LOCA	TION	114.		15. CRITICAL		11.7	<u> </u>	
E‰ C.	CODE	DESIGNATION	LONGITUDE	LATITUDE	MIS	SION OF STATION	PARAMETERS	REFERENCES	SYSTEMS REQUIR	RED	STATIONS
1		VTS	120.5°W	35.0°N	Tracking reception	as directed. g and telemetry on during launch n pass on orbit.			S-Band radar     200-Mc tracking and data acquisition     Data handling equipment		1-5 1-5 1-5
2		TTS	68.5°₩	76.5°N	Tracking	as directed. g and telemetry on during each orbit.			4. Intrastation communication 5. Interstation communication 6. Boresight and alignment 7. Command capability, digital (GE) 8. Timing equipment		1-5 1-5 1-5 1-5
3		KTS	152.5°	57.8°N	Tracking	as directed.  and telemetry on during each orbit.			9. Control and display 10. Cryptographic equipment 11. Zeke command capability 12. Telemetry data recording		1-5 1-5 1-5 1-5
4		HTS	158.3°W	21.6°N	Tracking	as directed. g and telemetry on during each orbit.					
5		nhs*	71.7 <sup>°</sup> W	43.0°N	Tracking	as directed. g and telemetry on during each orbit.			NOTE: Telemetry recording during the reentry during OCV/206 S-0	maneuve	er and
		* For use a	a backu	p station	, not as	a primary station.					
			,		-						
		50			L	·,					

SATELLITE TRACKING	CHARACTERISTICS						3. DATE 1	
PROGRAM 206	6. PROGRAM REQUIREMENT	7. SYSTEM C	664014	1 .	ace Comp. /AF			GINAL
10. RADAR CROSS-SECTION EVALUATION	11. TRACKING ALDS			11.01 Obje	sec gerpijin	5-1(6/2/) 40	<u> </u>	
A. CONFIGURATION FACTORS  GEOMETRY SIZE: Cylindrical, 12,000 sq in.	TYPE & DESIGNATION	TRANSMISSION PERIOD (SEC.)	PEPIODS OF OPERATION (NUMBER PASS)	RADIATED POWER (WATTS)	TYPE OF TRANSMISSION	FREQ.	TYPE/LOCATION OF ANTENNA	ASSOCIATE GROUND EQUIPMENT
L = 20 ft, dia = 5 ft  SKIN MATERIAL  2024 Aluminum	a TELEMETRY NON-INTERROGATED	360-720	Each sta-	8-12	PAM/FM/FM	248.6	Cavity bac	K TIM
REFLECTORS.  None  OTHER:	High Frequency SRV	360-720	Continuous from 75 seconds	8-12 1.5-2	PAM/FM/FM FM/FM	258.5 242.0	Cavity bac slot, ±200 from botto See Note	m Receive TLM Receive:
None  8. system factors	None		prior to separation (See Note)					
ATTITUDE OF LONGITUDINAL AXIS:  ANGLE WITH ORBITAL PLANE 0 DEGREES,  SPACIALLY FIXED  ANGLE WITH LOCAL VERTICAL 90 DEGREES,  EARTH FIXED YES	8. TRACKING BEACONS NON-INTERROGATED S-Band	366-720		l kw peak	Pulse	2920(TX)	Cavity back helix bot- tom only	S-Band Radar
ROTATIONAL RATES IN REFERENCE TO LOCAL VERTICAL:  AXIAL	INTERROGATED	NOTE:						
OTHER:	C. OTHER	Hi a	and In Freet	ency Anten at Statio	us from 75 se nas are locat n 57. SRV ar	ed at + 19:	o from bott	om of
C. CROSS-SECTION PATTERN RANGE OF GROUND STATION ASPECT ANGLES:		100		-0 <b>.1</b> ,0•			Proteinis	
MAXIMUM CROSS-SECTION Not available m <sup>2</sup> MINIMUM CROSS-SECTION Not available m <sup>2</sup>								

<u> </u>			1. SECURITY CLASSIFICATION	2. PASE 460		
SATELLITE ACTIVE TR	ACKING SYSTEM			3. DATE 1 June 1965		
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	B. CONTRACTOR CONTRACT NUMBER	ORIGINAL		
PROGRAM 206	NO. NOME	75664014	Aerospace Corp./AF 04(695)-469	DATES		
. PURPOSE OF BEACON SYSTEM	11. SYSTEM DESCRIPTIO	N				
The S-band pulse beacon consists of (1) a	A. BEACONS		C. ANTENNAS			
superheterodyhe receiver which accepts two or three pulse-coded rf inputs, detects and	DESIGNATION: S-E	Sand	TYPE Cavity-Backed Helix			
shapes these pulses, and decodes the first and last pulse, (2) a transmitter which	TYPE OF TRANSMISSIO	N: Pulse	FIXED TUNE X TUNASLE			
transmits an uncoded response, and (3) a transistorized power supply.	FREQUENCY: 2920	) ± 5 Mc	LOCATION: $\theta = 60^{\circ} \& \phi = 180^{\circ}$ Beam Width: See	Page 461.1		
The beacon provides the shaped video pulse train as an output to the command decoding	NUMBER OF BEACONS	uses: One	ORIENTATION: Longitudinal			
equipment.	тиям-ом метноо:	Stored Command	POWER OUTPUT: 1000 watts (peak)			
	TURN-OFF METHOD: ()	command and Timer	FREQUENCY RANGE: 2850 ±5 Mc	: 2920 ±5 Mc		
	BEACON FUNCTIONAL		BEAM WIDTH N/A			
	1		MAXIMUM SIDE LOBES:			
	response to pro		E-PLANE			
			H-PLANE			
			SPECIAL CHARACTERISTICS:			
`	B. DECODER		-15 db theoretical null at $\theta = 68^{\circ}$ and $\phi = 183^{\circ}$			
	DESIGNATION: Traci	king Interrogation				
	TYPE: Multivib	rator Time Comparison				
	CODING SYSTEMS AVAI	LABLE: Pulse Spacing	PATTERN AVAILABILITY: See page 461.1			
	DECODER FUNCTIONAL	L DESCRIPTION:	POLARIZATION CHARACTERISTICS:			
		ency checked for a				
· ·		pacing of 36 ±0.5 us.	Linear			
		to all pairs with				
		istics Aftern on SSD FORM NO. 92 OR S				
	* FURNISH ANTENNAP	ATTERN ON SSD FORM NO. 92 OR S				
SD FORM 62 55			1. SECURITY CLASSIFICATION 9	. REVISION NO.		

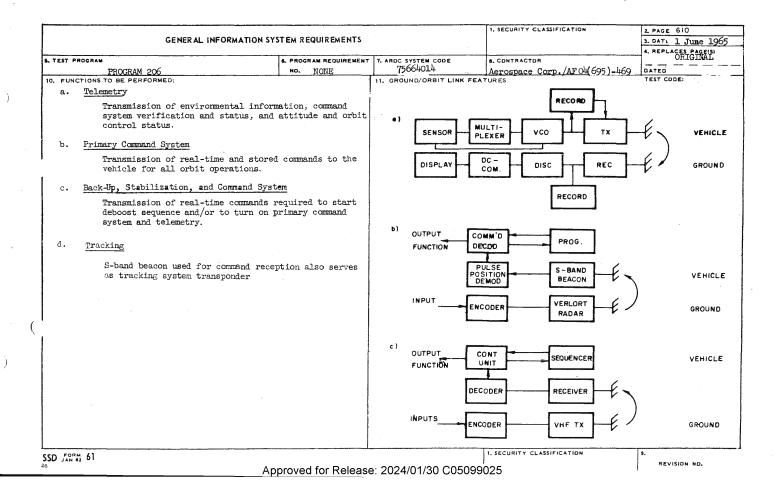
	1. SECURITY CLASSIFICATION	Z. PAGE 461
PULSE BEACON		3. DATE 1 June 1965
	1	4. REPLACES PAGE(5)
5. PROGRAM TITLE 6. PROGRAM REQUIREMENT 7. SYSTEM CODE	8. CONTRACTOR/CONTRACT HUMBER	ORIGINAL
PROCRAM 206 NONE 17004014	Aerospace Corp. AF 04(695)_469	DATEI
10. BEACON CHARACTERISTICS 111. TRANSMITTE	ER CAPABILITIES 12. RECEIVER CA	APABILITIES
A. BEACON FUNCTION:  1. Tracking and acquisition  2. Receiver for command functions  8. Special interrogation and reply capabilities:  MAXIMUM DELAY VARIATION	A. TYPE  X SUPERHET  X SUPERHET  B. SUBSYSTEM FEATURES  AUTO. GAIN CONTROL T  AGG TIME CONSTANT RE  LOGAL OSCILLATOR MA:  ABOVE. BELOW, OTHER FEATURES:  O.2 to 2  WATTS  1000  WATTS  1000  WATTS  ATTACHED  STABILITY  TUNED CITCUIT  3 DB 10 ± 2 Mc  40 DB 35 Mc max  E. SENSITIVITY  MAXIMUM  MINIMUM  ES  LS either 410, 512, D pps.	Fixed tumed  Type: None  Equined: None  S FREQUENCY SET  INTEROGATION FREQUENCY  MC  L  PATIOVS.INPUT SIGNAL LEVEL  AVAILABLE,  ATTACHED

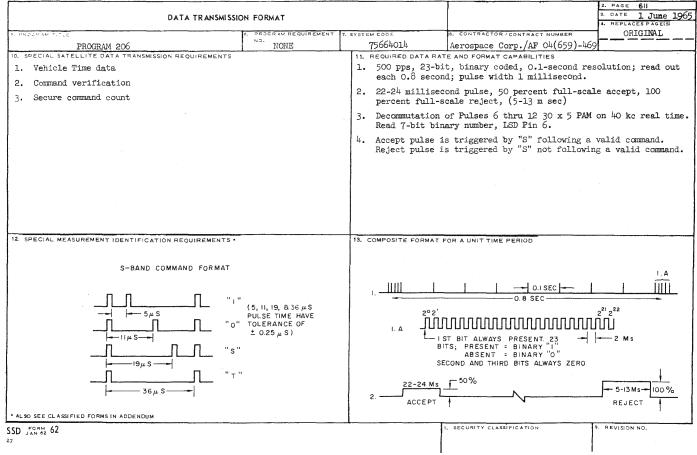


GENERAL EPHEMERIS RI	EQUIREMENTS			2. PAGE 510 3. DAT 1 June 1965 4. REPLACES PAGE(S)
PROGRAM 206  PURPOSE OF EPHEMERIS  Provide information adequate for acquisition, of control of the satellite vehicle.  Provide best-fit ephemeris on a post flight bas available tracking data to allow postflight ever accuracies.	sis, utilizing all	75664014  11. SOURCES OF DAT  Nominal missi Aerospace Cor digital S-Ban ing and acqui STA are VTS,	Aerospace Corp./AF 04(695)-460  Aerospace Corp./AF 04(695)-460	ORIGINAL  ORIGINAL  ORIGINAL  ORIGINAL  ORIGINAL  ORIGINAL
Orbit period.  Orbit plane inclination.  Time at which satellite reaches epoch perigee a Altitude of perigee.  Probable error in above parameters.	ultitude.	Telemetered t and deboost fo	PLEMENTAL INFORMATION  imes of events connected with inje or accurate simulation of powered  rmance characteristics of propulsi rol systems utilized for orbit adj	flight segments. on systems and
<ul> <li>4. UTILIZATION OF EPHEMERIS <ul> <li>a. Computation of acquisition data for tracking stations.</li> <li>b. Computation of satellite vehicle control comprograms.</li> <li>c. Impact prediction programs use ephemeris in d. Ephemeris-based displays and printed data for center operation, data analysis, and mission direction by 6594th ATW.</li> <li>e. Evaluation of on-orbit performance from posidata.</li> </ul> </li> </ul>	mmands for command aformation.  For station and control monitoring and	b. Up-Dating After trac	erval: hours, including any programmed or Period: cking pass as required by ORD 520	Item 12.

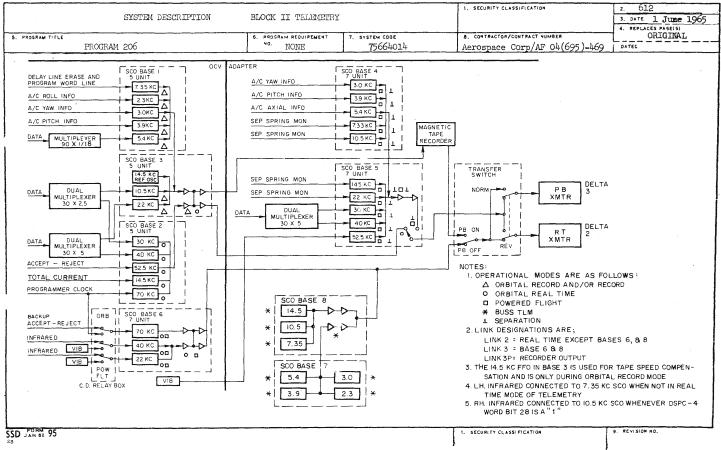
PROGRAM 206  10. METHOD OF DETERMINATION  A GENERAL  The orbital elements which best fit the tracking data in the least squares sense are determined. The differential equations of motion	SYSTEM CODE 75664014 11. PERMISSIBLE ASSUMPTION DOD-WGS coordinate	s. contractor/contract number Aerospace Corp./AF 04(695)-469 ons	4. REPLACES PAGE(S) ORIGINAL DATED
A GENERAL  The orbital elements which best fit the tracking data in the least squares sense are determined. The differential equations of motion		ON2	
are integrated from the epoch with these osculating elements for the desired time, which yields the satellite ephemeris. The accuracy of the orbit determination program must be as great as possible.  The ephemeris must be capable of being integrated through orbital adjustment periods, and must contain an associated set of orbital parameters (i.e., X, Y, Z, X, Y, Z, etc.) useful for orbital computations in a high speed digital computer.  **PECIAL REQUIREMENTS, CRITICAL ORBITAL ELEMENTS**	Seventh-parameter  Aerospace TOR-269( Data Book.  12 REQUIRED ACCURACIES Satellite spatial orbits predicted:  In-track Cross-track Altitude	yields average drag factor.  (4110-01)-13 Satellite Control  s  position errors on-orbit with u  ±4.0 n mi, 3σ ±2.0 n mi, 3σ ±0.5 n mi, 3σ include the following error so	p to four
SSD , 7,0 m 59		SECURITY CLASSIFICATION 1	. REVISION NO.

			1. SECURITY CLASSIFICATION	2. PAGE 530	
EPHEMERIS FORM	AT & DISTRIBUTION	*		3. DAT 1 June 1965	
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM COOE		4. REPLACES PAGE(S)	
	1		8. CONTRACTOR/CONTRACT NUMBER		
PROGRAM 206	NO. NONE	75664014	Aerospace Corp./AF 04(695)-46	9 1	
		11. COORDINATE SY	SIEMS		
A. REPORT PRESENTATION					
Computer language magnetic tapes. Computer printed listings.		Earth-centers	dinate system for ground locations, and inertial cartesian coordinate systemed to the vernal equinox of	stem for spatial	
		Tocacions, re	sterenced to the vernal edution of	date.	
B. DATA FORMAT (GENERAL, TABULAR, GRAPHIC, ETC.)					
Tabular/time-correlated					
·					
C. SPECIAL REQUIREMENTS		1			
Transfer of orbit parameters to other o	perating subprograms				
possible in real time.					
12. DISTRIBUTION				•	
A. RECEIPIENTS AND NO. OF COPIES					
			•		
•					
B. ISSUE OF FIRST DRAFT:					
C. ISSUE OF FINAL EPHEMERIS:					
D. UP-DATING FREQUENCY:					
. E. ISSUE OF EPHEMERIS REVISION:					
SSD JAN 62 60			1. SECURITY CLASSIFICATION	9. REVISION NO.	
33U JAN 62 00 2s					
<del></del>					



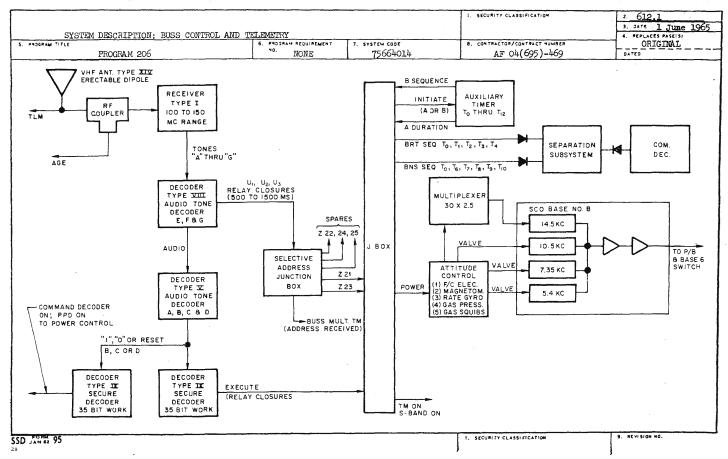


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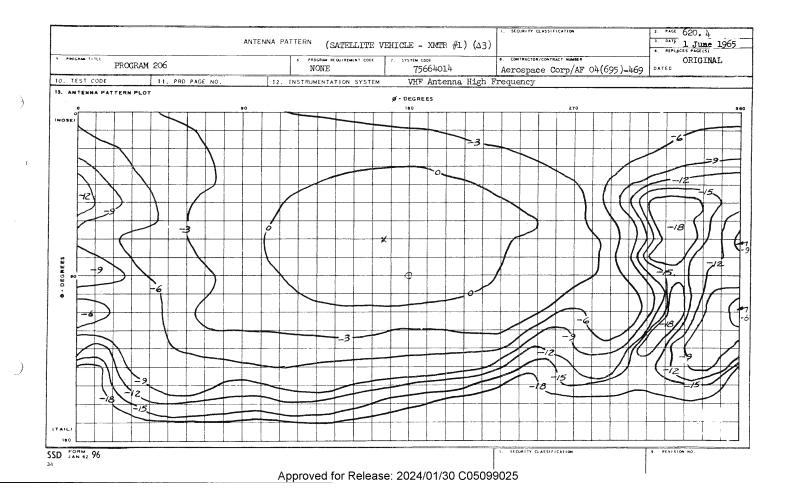
Approved for Release: 2024/01/30 C05099025

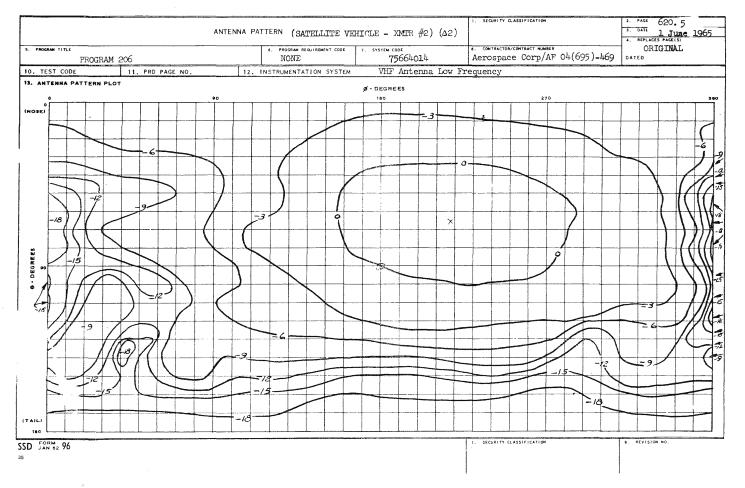
TELEMETRY TRANSMISSIO			1. SECURITY CLASS	FIC ATION	2. PAGE 620 3. DATE 1 June 19 4. REPLACES PAGE(S)	
		BASES 1, 2, AND 3)				
PROGRAM TITLE PROGRAM 206	6. PROGRAM REQUIREMENT NO. NONE	75664014	Aerospace Cor	p/AF 04(695)-469	ORIGINAL	
O. TRANSMITTER CAPABILITIES:	11. SPECIAL MODULAT	ION REQUIREMENTS:	12. ANTENNA CA	PABILITIES:		
A. SERVICE:  EQUIPMENT STATUS X: MISSION X:  ENVIRONMENTAL (; OTHER;	A. MODULATION FEAT PAM/FM/FM FM/FM	TURES:	A. ANTENNA SI	ERV CE:		
B. TRANSMISSION FEATURES:			B. TYPE:	TUNABLE [_] FIX	ED TUNED X	
TRANSMISSION INITIATED BY:			Cavity-	backed slot		
Command MODULATION TYPE	B. CONTINUOUS MEAS	UREMENT SIGNALS:	C. FREQUENCY	RANGE:		
PAM/FM/FM	70 kc, 52.5 l	er frequency a deviation. ke, 14.5 ke, 7.35 ke,	240-260 D. POWER RANG 15 Watts	E:		
FREQUENCY OF LINK *248.6 Mc (normal) (Δ2)  EFFECTIVE RADIATED POWER: 258.5 Mc (Alternate)  3 watts  C. FREQUENCY CAPABILITIES:  PANGE OF DATA RATES  DEVIATIONS: MAX \$150 \text{ kc, in.}  FREQUENCY STABILITY: '±0.01%  FREQUENCY STABILITY: '±0.01%	+7.5% deviation of the control of th	onals: Annels See Note) Its/Channel: 30, 90	O db  F. BEAMWIDTH:  MAIN LOBE A  E PLANE:  H PLANE:  MAXIMUM SID	N/A IT SDB POINTS:		
Crystal referenced  D. BAND WIGHT: EMITTED SPECTRUM WIDTH AT  J DB: 300 kc  60 DB:	PULSE MESSAGE: NUMBER OF MEAS FRAME RATE: MAXIMUM PRF:	:UREMENTS:	Ar ri pl	tenna pattern din Light ( $\Delta 3$ ) or left Lane, and 20° forword room vehicle.	rected armrox 20°	
E. MAXIMUM OUTY CYCLE: Continuous	PEAK PULSE POW		LOCATION OF	e pgs. 620.5 and TANTENNA: Station INTROLABILITY:	57	
The choice of whether the low frequency (248.6 Mc) transmitter or the high frequency (258.5 Mc) transmitter is used for this data may be made by real time command.	SINUSOIDAL MESSAI NUMBER OF MEAS FREQUENCY: CYCLES/FRAME: DATA/FRAME:		axial rotat An		vehicle	
) 150m 63 NOTE: 5.4 kc, +7.5%; 10.5 k 40 kc, +7.5%.		se: 2024/01/30 C0509	L SECURITY CLASSIFI	CATION	. REVISION NO.	

TELEMETRY TRANSMISSIO	N CHARACTERISTICS DAT	PPLEMENTAL REAL TIME	1. SECURITY CLASSIFICATION	2. PAGE 620.1 3. DATE 1 June 1965
5. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CDNTRACTOR/CONTRACT NUMBER	4. REPLACES PAGE(5) ORIGINAL
PROGRAM 206	NO. NONE	75664014	Aerospace Corp/AF 04(695)-469	
10. TRANSMITTER CAPABILITIES:	11. SPECIAL MODULATION	<u> </u>	12. ANTENNA CAPABILITIES:	<u> </u>
A. SERVICE:  EQUIPMENT STATUS [X]; MISSION [X]  ENVIRONMENTAL []; OTHER []	a. modulation featur FM/FM	RES:	A. ANTENNA SERVICE:  SINGLE X MULTIPLE	
B. TRANSMISSION FEATURES: TRANSMISSION INITIATED BY:			8. TYPE: TUNABLE FIN	KED TUNED [X]
MODULATION TYPE FM/FM  *Normal: 258.5 Mc (Δ?)  *Alternate: 248.6 Mc (Δ2)  FREQUENCY OF LINK  EFFECTIVE RADIATED POWER:  8 watts  C. FREQUENCY CAPABILITIES:  PANGE OF DATA RATES  DEVIATIONS: MAX 1180 kc  FREQUENCY STABILITY: 10.01%  FREQUENCY CONTROL METHOD:	1	MENTS: 3 FREQUENCY & DEVIATION: 22 kc, 10.5kc, 7.35kc (See Note)  ALS: 4.5kc ±7.5%	C. FREQUENCY RANGE: 240-260 Mc D. POWER RANGE: 15 WAT LS E. MAXIMUM GAIN ABOVE ISOTOPIC: O db F. BEAMWIDTH: MAIN LOBE AT 3DB POINTS: E PLANE: H PLANE: MAXIMUM SIDE LOBES: G. POLARIZATION, PREDOMINANT TYPE:	Linear
Crystal referenced  D. BAND WIDTH:  EMITTED SPECTRUM WIDTH AT  3 DB: 300 kc 60 DB:  E. MAXIMUM DUTY CYCLE: Continuous  The choice of whether the high frequency (258.5 Mc) transmitter or the low frequency (248.6 Mc) transmitter is used for this data may be made by real time command.	PULSE MESSAGE:  NUMBER OF MEASUR FRAME RATE:  MAXIMUM PRF: PEAK PULSE POWER PULSE WIDTH (50% AI  SINUSOIDAL MESSAGE: NUMBER OF MEASUR FREQUENCY: CYCLES/FRAME: DATA/FRAME:	: MPLITUDE): EMENTS:	Antenna pattern diright ( $\Delta 3$ ) or leight ( $\Delta 3$ ) or leighane, and 20° foi down from vehicle.  H. SIGHTING: See pgs. 620.5 and LOCATION OF ANTENNA: Station ATYLYUDE CONTROLABILITY:  Fixed AXIAL ROTATION:  \$\pmu \frac{1}{2} \pm \frac{1}{2}	irected approx 20° ft (\( \( \) 2 \)) of pitch ward, looking 620.6.  n 57  to vehicle tabilized
SSD JAN 62 63 NOTE: In separation mode, appear, will not be	Base 6 on which thes energized.	e SCO's	1. SECURITY CLASSIFICATION	9. REVISION NO.

	RR	CORDED DATA (ORBIT)	1. SECURITY CLASSIFI	CATION	2. PAGE 620.2
TELEMETRY TRANSMISSIO	N CHARACTERISTICS (B	ASES 1 AND 3)			3. DATE 1 Jume 1965
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4. REPLACES PAGE(S)
8. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CONTRACTOR/CON	TRACT NUMBER	ORIGINAL
PROGRAM 206	NO. NONE	75664014	Aerospace Corp.	/AF 04(695) <b>-469</b>	DATED
10. TRANSMITTER CAPABILITIES:	11. SPECIAL MODULATION	REQUIREMENTS:	12. ANTENNA CAPA	BILITIES:	
			A. ANTENNA SER	VICE:	
A. SERVICE:	A. MODULATION FEATURE PAM/FM/FM and		SINGLE X MI	JLTIPLE [	
EQUIPMENT STATUS []; MISSION []		rm/rm at 7.5 IPS playback at		_	
ENVIRONMENTAL; OTHER		lout of 16 minutes of			
B. TRANSMISSION FEATURES:	data in four m		B. TYPE:	TUNABLE FIX	ED TUNED [X]
TRANSMISSION INITIATED BY: Command		p tape. Recording erase orded data underneath.	s Cavity-ba		Last
MODULATION TYPE	B. CONTINUOUS MEASUR		C. FREQUENCY R	ANGE:	
PAM/FM/FM	NUMBER OF MEASURE	MENTS:	24C-260 M	c	
**************************************	SUBCARRIER CENTER	R FREQUENCY & DEVIATION:	D. POWER RANGE		
	(See Note)		15 watts	ABOVE ISOTOPIC:	* 1
FREQUENCY OF LINK *Normal: 258.5 Mc (3)			0 db		
EFFECTIVE RADIATED POWER: *Alternate: 248.6 Mc	C. SAMPLED DATA SIGNA	ALS:	F. BEAMWIDTH:		
8 to 12 watts (2)	MILL TIPL EVED GUANI	uet e	MAIN LOBE AT	3DB POINTS:	
C. FREQUENCY CAPABILITIES:	3;5.4 kg	± 6.5%;10.5 kc,22 kc	E PLANE:		
range of data rates  deviations: max +180 kc min	NOMBEK.	NELS c ± 6.5%;10.5 kc,22 kc f7.5% deviation 7CHANNEL: 30, 90	H PLANE:		
FREQUENCY STABILITY: +0.01%	MESSAGE SEGMENTS	- /-0	MAXIMUM SIDE I	_OBES:	
FREQUENCY CONTROL METHOD:	RATE: 5, 2.5,	1/18			
Precision reference tone referenced			G. POLARIZATION	, PREDOMINANT TYPE:	Linear
	PULSE MESSAGE:				
D. BAND WIDTH:	NUMBER OF MEASUR	REMENTS:	lAnt	enna pattern di:	rected approx 20 <sup>0</sup>
EMITTED SPECTRUM WIDTH AT	FRAME RATE:		rig	ht (3) or left	(2) of pitch plan
3 DB: 300 kc	MAXIMUM PRF:		& 2	0° forward, loo	king down from vehi
60 DB:	PEAK PULSE POWER	ı:	н. sigнтing: cle	. See pgs 620.5	and 620.6.
E. MAXIMUM DUTY CYCLE: Continuous	PULSE WIDTH (SO% A	MPLITUDE):	LOCATION OF A	NTENNA: Station	57
*The choice of whether the high fre-		·	ATTITUDE CONT	FROLABILITY:	
quency (258.5 Me) transmitter or the	1			Fixed to vel	hicle
low frequency (248.6 Me) transmitter is	SINUSOIDAL MESSAGE	:	AXIAL ROTATIO	***	
used for this data may be made by real	NUMBER OF MEASUR	EMENTS:	Antenna r	otates with vehi	icle
time command.	FREQUENCY:				
	CYCLES/FRAME:				4
	DATA/FRAME:				
SSD JENES 63 NOTE: 7.35 kc, 3.9 kc, 3.0 kc,	2.3 kc, 1.7kc: +7.5%	dev:14.5 kc channel	. SECURITY CLASSIFICA	TION	9. REVISION NO.
is fixed frequency oscill	ator used for tape s	peed compensation.			
Frequency error due to ta				1	*
frequency.					

TELEMETRY TRANSMISSIO		· · · · · · · · · · · · · · · · · · ·	1. SECURITY CLASSIFI	CATION	2. PAGE 620 . 3 3. DATE 1 June 1965 4. REPLACES PAGE(S)
8. PROGRAM TITLE PROGRAM 206	6. PROGRAM REQUIREMENT	7. SYSTEM CODE 75664014	8. CONTRACTOR/CON Aerospace Corp.	/AF 04(695)-469	ORIGINAL
10. TRANSMITTER CAPABILITIES:  A. SERVICE:	A. MODULATION FEATUR		12. ANTENNA CAPA  A. ANTENNA SER  SINGLE M	VICE:	
EQUIPMENT STATUS [X]; MISSION [X] ENVIRONMENTAL []; OTHER []  B. TRANSMISSION FEATURES:	FM/FM Multiple lev monitoring.	vels as event	B. TYPE:	TUNABLE [ FIX	ED TUNED 🛣
TRANSMISSION INITIATED BY:  Stored command. 75 seconds prior to  MODULATION TYPE separation.  FM/FM	3.0 kg, 3.9 kg	ments: 4  s frequency & deviation:  5.4 kc; ±6.5%	C. FREQUENCY R 241 - 243 D. POWER RANGE 15 watts E. MAXIMUM GAIN	Mc	
FREQUENCY OF LINK 242.0 Mc ( $\Delta$ 4)  EFFECTIVE RADIATED POWER:  1.5 - 2 Watts  C. FREQUENCY CAPABILITIES:  PANGE OF DATA RATES  DEVIATIONS: MAX $\frac{+60}{100}$ Kc MIN.  FREQUENCY STABILITY: ± 0.01%  FREQUENCY CONTROL METHOD:  Crystal referenced	deviation; 10.  C. SAMPLED DATA SIGNA  MULTIPLEXED CHANN  NUMBER:  MESSAGE SEGMENTS  RATE:	ALS:	3 db  F. BEAMWIDTH:  MAIN LOBE AT  E PLANE:  H PLANE:  MAXIMUM SIDE	3DB POINTS:	Linear
D. BAND WIDTH:  EMITTED SPECTRUM WIDTH AT  3 DB: 100 KC  60 DB:  E. MAXIMUM DUTY CYCLE:  Continuous	PULSE MESSAGE:  NUMBER OF MEASUR FRAME RATE:  MAXIMUM PRF:  PEAK PULSE POWER  PULSE WIDTH (50% A	:	ri & 2 H. SIGHTING: Vel	ght (A3) or left 20° forward, loc hicle. See pgs antenna: Station	620.5 and 620.6.
	SINUSOIDAL MESSAGE NUMBER OF MEASUR FREQUENCY: CYCLES/FRAME: DATA/FRAME:		and at 10 I. Antenna P No. 13260	tates at 80 RPM RPM after burn. atterns availab	
SSD JENES 63			I. SECURITY CLASSIFIC	ATION	9. REVISION NO.





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	SPECIAL STATION TELEMETRY R	ECEIVING REQUIREMENT	TS		1. SECURITY CLASSIFICATION	DN	2. PAGE 630 3. DATE 1 June 1965 4. REPLACES PAGE(S)
t. PROG	PROGRAM 206			EM CDDE	8. CONTRACTOR/CONTRAC		Original
		NO. NONE	<del>                                     </del>	75664014	Aerospace Corp/AF	04(695)-469	DATED
	QUE STATION REQUIREMENTS		11. SUG	GESTED LOCATION O	F RECEIVING STATIONS		1
ı.	Time Comparison		1				Ì
	Required for relating vehicle time with from 52.5 kc ±7.5%	ground time					
2.	Command Functions						
	Receive and convert Accept/Reject signal (or 52.5 kc ±7.5% SCO for backup) for pr encoder with real-time scope display; pr oscilloscope display of 7.35 kc ±7.5% SC Line/Delay Line Erase at all command sta	esentation to ovide real-time O, Program Word	Address of the Community of the Communit	Prima: 1 VTS 2 TTS		Backup 1 NHS	
3.	Recovery Recording			3 KTS			1
	The three transmitters, $\Delta 2$ , $\Delta 3$ , and $\Delta 4$ re		1	4 HTS			
	Kodiak. Over Hula, Δ2 and Δ3 can be rec Δ4 with an independent ground antenna. Δ recorded via telemetry aircraft north of	cost and de-orbit sequence can all be recorded at ak. Over Hula, $\Delta 2$ and $\Delta 3$ can be recorded, and possibly ith an independent ground antenna. $\Delta 4$ must also be raded via telemetry aircraft north of the recovery area. rding of $\Delta 2$ and $\Delta 3$ by the telemetry aircraft may also			cessing a RETRANSMISSION emetry received sign with ground time. I licate recordings.	als on origi	nal (virgin)
	be required.	-	2.	Provide vehicle	time comparison in	near real t	ime.
4.	Recording of Agena Al Info on Early Stat		3.		B coded data channe tion as required.	ls for prese	entation and near
	Although not a Program 206 requirement, stations will make magnetic tape recording missions from the Agena 206/S-OlA vehicle injection of the CCV into orbit. It is a	ngs of ∆l trans- e following	4.	playback of gro	recorder data post and tape recorded d sation on discrimina	ata at 1/4 s	
	these recordings be accomplished without the normal Program 206 tracking, command: operations. Detailed information on this	interference with ing, and recording s \( \Delta \) is \( \Delta \).	5.				ch feed the
	contained in the "GFE #2 Orbital Requirer	ments Document."	6.		or switching receiv		ed the particular
co FOR	n. A		7.	recording of Δl Monitor operati	on of 206 recording	7200 seconds to assure t	following launch.
SD JAN	62 04			Δl link. (See			
						]	

	1									1. SECURITY CLASSIFICATION	2. PAGE .640
			SATELLITE	MEASURE	MENTS -	SYSTEM REQU	IR EMENT	S			3. DATE   June 196
	5. PROG	PR	OGRAM 206			5. program requir None		7. system 756	w code 64014	a. contractor/contract number AF 04(695)-469	Original
ınd	10. MEAS. CODE	SENSOR TYPE	12. MEASUREMENT RANGE	13. ACCURACY	PRIORITY	15. SAMPLING RATE	1		SCHEDULE TH ON &/OR STORAGE	17. SPECIAL REQUI	REQUIREMENTS)
.3 .5 .0 .7 .8 .0 .1 .2 .3 .4 .6	2.3 3.0 3.9 5.4 7.35 10.5 14.5 22.0 14.5 30.0 5.4 7.35 10.5 14.5 22.0 5.4 7.35	Multiplexed Voltage Div Infrared Multiplexed Oscillator Multiplexed Current Multiplexed Multiplexed Voltage Div Voltage Div Voltage Div Voltage Div Wultiplexed Infrared Infrared	Discrete Level  10.05 Deg/Sec  11  12  Discrete Level  10 to 5 volts  11  Discrete Level  10 4 7 days  Discrete Level  11  12  13  14  15  16  17  17  18  19  19  10  10  10  10  10  10  10  10	s O.l sec resolutions	A B A,B,C C A,B,C C A,B,C C A,B A,B,C A,B,C A,B A,B,C A	90x1/18 Gontinuous 30x2.5 Continuous 30x5 30x2.5 Continuous 30x2.5 Continuous	Orbital Orbital	Real 1	/	Stab Gyro roll rate outp Stab Gyro pitch rate outp Stab Gyro pitch rate outp Stab Gyro yaw rate outp All See pages 640.1, 640. TT&C Program word lin	cut-fine ut-fine 2, 640.3 e/delay line erase ) rr than real time) (see Page 640.4 & note) ensation 40.5) al batteries total age 640.6) (see Page 640.7) .tion PPS

PROGRAM VILLE   PROGRAM 206   None				SATELLITE	MEASURE		SYSTEM REQU				1. SECURITY CLASSIFICATION	2. PAGE 640. I 3. DATE 1 June 196 4. REPLACES PAGE(5)
MASS   SENSOR TYPE   MEASUREMENT   RANGE   ACCURACY   PRIORITY   SAMPLING   PROPOSED SCHEDULE OF TRANSMISSION A/OR STORAGE   (UNIQUE TRANSDUCER REQUIREMENTS)		S. PROG					6. PROGRAM REQUIREMENT NO. 7. SYSTEM CODE None 75664014					
Link 2 & 3 P   TT&C 50 percent calibration   TT&C 100 percent calibration   TE&C 100 percent calibration   TT&C 100 percent calibration   TT&C 100 percent calibration   TT&C 100 percent calibration   TE&C 100 percent calibration   TE&C 100 percent calibration   TE&C 100 percent calibration   TE&C 100 percent calibration   TE&C 100 percent calibration   TE&C 100 percent calibration   TE&C 100 percent calibratic   Exp. Fet No 2   Exp. Fet No 4   Stab Temp tars platform profit   Exp. Fet No 2   Stab Temp tars platform profit   T&C 100 percent calibratic   Exp. Fet No 2   Exp. Fet No	nd	MEAS.	1	MEASUREMENT	11.5.		SAMPLING	P			UNIQUE TRANSDUCER REG	UIREMENTS)
		2 3 4 4 5 4 6 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6	Temp.  Tomp.  Tomp.  Voltage Spare Voltage Temp.  Temp.  Temp.  Temp.  Temp.  Temp.	162.5 to 167.5 162.5 to 167.5 162.5 to 167.5 22.8 to 29.2 V.5 volt buss 9.0 to 11.0 VI 23.9 to 29.1 V 0 to 100 psia 0 to 600 psia 0 to 130 F 50 to 100 F 25 to 27 VAC 0 to 130 F 0 to 130 F	0 F F F F A C	D D D D D D D D D D D D D D D D D D	lper 18sec				TT&C 50 percent calibration TT&C 100 percent calibration H30 Thrust come temperature Exp. Fet No 2 Exp. Fet No 3 Exp. Fet No 4 Stab Temp tars platform roll Stab Temp tars platform pitt Stab Temp tars platform yav Stab Voltage gyro: 400 cycle - Stab DC power supply +10 DC Stab DC power supply +26.5 Stab Dressure regulator low Stab Pressure regulator high Thermo Temp Sta. 84 at 180 Exp. Fet No. 5 Exp. Fet No. 6 Stab Temp tars electronics Stab Tars gyro wheel PWR Thermo temp Sta 104 at 270 Thermo temp Sta 104 at 250	VDC output

		SATELLITE	MEASUREMEN	TS	SYSTEM	REQU	IR EMENT	s	ment of the state		2. PAGE 640. 2  3. DATE 1 June 1965  4. REPLACES PAGE(S)
5. P	ROGRAM TITLE				6. PROGRA		EMENT NO.	7. SYSTE		8. CONTRACTOR/CONTRACT NUMBER	Original
		OGRAM 206				one		75	664014	AF 04(695)-469	DATED
d MEA	AS. SENSOR TYPE	12. MEASUREMENT RANGE	13. I4. ACCURACY PR	ORIT	7 (	PLING ATE			SCHEDULE 10≻ ON &/OR STORAGE	17. SPECIAL REQUIRE  (UNIQUE TRANSDUCER RE (OUTPUT RANG	QUIREMENTS)
Pir %25 26 26 26 26 26 26 26 26 26 26 26 26 26	5 Spare 6 Temp. 7 " 8 " 9 Spare 1 Voltage 1 Temp. 2 Rate 3 Temp. 4 " 9 " 1 " 2 " 3 - 6 - 7 Temp. 8 " 9 " 1 " 2 " 3 - 6 Voltage Div 7 " 9 Temp.	5V buss 0 to 130°F -40 to +266°F 0 to 130°F 5V buss 0 to 15.5 VDC -80 +/05deg/sec -80 to +200°F -80 to +200°F -80 to +200°F +32 to +500°F +32 to +500°F -80 to +200°F -80 to +200°F -80 to +200°F -80 to +200°F -80 to 130°F - 0 to 130°F 0 to 130°F		DDD . CDCDD	l per	18se	c Orbit Link		Time & Record	Thermo Temp Sta. 127 at 1 Stab Temp R. H. scanner Thermo Temp Sta 190 at 18 - H-30 Voltage H30 Battery N Stab Temp. pitch gyro case Stab Gyro yaw rate output f Thermo Temp. outside inst Temp Tars electronics Exp Fet No. 7 Exp Fet No. 8 Thermo Temp. OCV skin St Thermo Temp. OCV skin St Thermo Temp. Liner Sta. 1 Thermo Temp Liner Sta. 1 Thermo Temp Liner Sta. 1 Thermo Temp Liner Sta. 1 Thermo Temp Liner Sta. 1 Exp Fet No. 9 TT&C Temp. Power Ampli Exp Fet No. 10 TT&C 100 percent calibration TT&C 10 percent calibration Thermo Temp inside insul. Thermo Temp inside insul. Thermo Temp inside insul. GFE 1-4 GFE 1-7 GFE 1-8	a. 190 at 60° a. 190 at 120° 190 at 120° 190 at 22° 90 at 182° 90 at 240° 90 at 300° fier
SSD 39	FORM 62 65								***************************************	I. SECURITY CLASSIFICATION	9. REVISION NO.

			SATELLITE	MEASURE	AENTS - S	YSTEM REQU	IR EMENTS	;	300 pp	1. SECURITY CLASSIFICATION	2. PAGE 640.3  3. DATE 1 June 1965  4. REPLACES PAGE(5)
	5. PROG	RAM TITLE PR	OGRAM 206		6	None	EMENT NO.	7. SYSTEM CO 75664		8. CONTRACTOR/CONTRACT NUMBER AF 04(695)-469	Original
Band	MEAS. CODE	SENSOR TYPE	12. MEASUREMENT RANGE	13. ACCURACY	14. PRIORITY	1S. SAMPLING RATE			HEDULE OF	17. SPECIAL REQUIREME (UNIQUE TRANSDUCER REQU (OUTPUT RANGES)	IREMENTS)
10	55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	- Digital "" Pressure Temp. "" " Voltage "" " Rate Spare	One Two Four 0 to 5000 psia 0 to 130°F -80 to +200°F -80 to +200°F -80 to +200°F -80 to 200°F -80 to 200°F -80 to -200°F -80 to -200°F -80 to -200°F -80 to -200°F -80 to -210°F -90 to -11.0 +/05°/sec 5V Buss	C		RATE  1 per 18se		l Real T	ime & Record		D) t.t. g. Plate o o o Supply V V
	*73 74 75 *76 77 78 80 81 82 83 *84 85 *86 *87 89 90	Temp. "" "" "" "" "Rate Temp.	-80 to +200° F -80 to +200° F -80 to +200° F -40 to +266° F -80 to +200° F -80 to +200° F -80 to +200° F -40 to +266° F 0 to 130° F 0 to 130° F -80 to +200° F +/05deg/se 0 to 130° F -40 to +266° F 0 to 130° F -40 to +266° F 0 to 130° F	c		lper 18sec	Orbital	Real Ti	me & Record	Thermo Piggyback #6 Thermo Temp. Sta. 64 at 24 Thermo Temp. Sta. 64 at 300 EP&SD Temp. Op. Bat No. 5 Thermo Temp. Sta. 77.5 aft. Thermo Temp. Sta. 64 at 180 Thermo Temp. WHF Antenna EP&SD Temp. Op. Bat No. 1 EP&SD Temp. Op. Bat No. 1 EP&SD Temp. Op. Bat No. 3 EP&SD Temp. Op. Bat No. 3 EP&SD Temp. Op. Bat No. 4 TT&C Temp. Recorder Stab Gyro Pitch Rate Output F Thermo Temp. Adapter Struct Stab Temp. L. H. Scanner OA Temp. Hot Gas Solenoid V TT&C Frame Synch TT&C Frame Synch	eqip. struct. O

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	5, PROG	FRAM TITLE	SATELLITE	MEASUREM			M REQU		7. SYSTEN			SECURITY CLASSIFICATION     SECURITY CLASSIFICATION     SECURITY CLASSIFICATION	2. PAGE 640.4 3. DATE 1 June 1965 4. REPLACES PAGE(S) Original
		P.	ROGRAM 206		l	No	one		756	64014		AF 04(695)-469	OATED
Band	10. MEAS. CODE	11. SENSOR TYPE	12. MEASUREMENT RANGE	13. ACCURACY	PRIORITY	1	PLING	1	-	SCHEDULE OF ON &/OR STORAGE		17. SPE CIAL REQUIREM (UNIQUE TRANSDUCER REQ (OUTPUT RANGES	UIREMENTS)
12	Pin * 1 * 2 * 3 * 4	Voltage Div	Discrete Leve	1s	C B A C	2.5	/sec.	Orbita (Link		Time & Reco	And accounted to the fact the transference	P.B. Piggyback #1 GFE GFE 1-29 GFE GFE 1-21 GFE 22 Volt Monitor TT&C 10 Percent Calibratio GFE GFE 1-11	n
1	* 7 8 * 9 10 11 12 13 *14	Digital Temp Digital	Discrete Leve -40 to +266°F - - - - Discrete Leve		C A B B B A B							TT&C Recorder Counter (LS GFE GFE 1-22 Thermo Temp. Backface Ski GFE GFE 2-15 GFE GFE 1-18 GFE GFE 1-23 GFE GFE 1-26 TT&C Recorder Counter TT&C 50 Percent Calibratio	rt Sta. 32
2	15 *16 *17 *18 *19 *20 21 22 23 *24 25 26 27 28	Digital Pressure Temp. Spare Voltage Div	-40 to 266 F Discrete Leve 0 to 350 psia 0 to 350 psia +40 to 590 F 5V Buss		BBABCBBB - BBBB	angerie, grippi men pena a displania mengala menjakan ya kitapa da masa masa kinansa a kaka						Thermo Temp. Backface Skir GFE GFE 2-2 GFE GFE 1-21 Stab Yaw Torque On TT&C Recorder Counter (MS OA OCV Oxidizer OA OCV Fuel Thermo Temp Stagnation Po- TT&C 90 Percent Calibratio Thermo Temp. Sect V Htr. Sep Computer Events Sep Computer Phase	rt Sta. 32 SD) int
1 2	29 30 * 9 *16	Temp.	- 0 to 130°F 0 to 130°F		- D D					,		TT&C Frame Sync TT&C Frame Sync Thermo Temp. of Capsule ( Thermo Temp. of Recovery	Veh 969 & Subsequen Battery (Veh 969 & S
	SSD 55	ORM 65 65	1	l		J		L				I, SECURITY CLASSIFICATION	9. REVISION NO.

Pin 4 1 -	PR	OGRAM 206		16.						4. REPLACES PAGE(S) Original
nd MEAS. SEN	1	12.			None	EMENT NO.	7. SYSTE	664014	8. CONTRACTOR/CONTRACT NUMBER AF 04(695)-469	DATED
4   1  -	· ·	MEASUREM ENT RANGE	13. ACCURACY	PRIORITY	15. SAMPLING RATE	1		SCHEDULE TOP ON &/OR STORAGE	17. SPECIAL REQUIRE (UNIQUE TRANSDUCER RE (OUTPUT RANG	EQUIREMENTS)
5	ate oltage Div oltage Div oltage Div oltage Div ate oltage Div ate rame Sync	24 to +24 V -24 to +24 V +/-5 deg +/-1.5 deg/s Discrete Leve +/-1.5 deg/se	ls ec	BBCC - BBBBBCCCA - ABBAACCBB - BBB	5/sec	Orbita (Link 2		Time & Record (Link 3P		Amp. Out Amp. Out Amp. Out Amp. Out on ltage oltage t ton Coarse

5. PROGRAM		AM 206			6. PROGRAM REQ.	HEMENT	7. SYSTEM CODE 75664014	8. CONTRACTOR/CONTRACT TOWNSER  AF 04(695)-469	2. 640. 6  3. JATE 1 June 196 4. REPLACES PASE(S) Original
10. MEAS. CODE	11. SENSOR TYPE	12. MEASUREMENT RANGE	13. ACCURACY	PRIORITY	15.	1	PROPOSED SCHEDULE OF	17. SPECIAL REQUIRE	EQUIREMENTS)
*12 *13 *14 15 *16 *17 18 19 20 21 22 23 24 25 26 27 *28	Spare Magnetom. Spare Voltage Div Spare Voltage Pressure Current Voltage Div Magnetom. Spare Voltage Div Frame Synce Frame Synce	0 to 1600 PPS 0 to 1600 PPS 5 V Buss 5 V Buss +/-550M Gaus +/-550 M Gaus 5 V Buss 5 V Buss 5 V Buss 5 V Buss 5 V Buss 24 to 31 VDC 0 to 5000 psia 0 to 10A 0 to 10A 0 to 10A 0 to 10A +/-550M Gaus 5 Volt Buss	S S	B - A A A B B B B B B	2.5/sec		al Real Time ink 2)	GFE 1-28 TT&C 10 Percent Calibrat. TT&C S-Band Beacon Inter TT&C S-Band Beacon Inter TT&C S-Band Beacon Tran  Buss P Axis Magnetometer Buss Q Axis Magnetometer  TT&C 50 Percent Calibrati Exp Fet No. 1  EP&SD Voltage Prog. Back OA Press. OCV N2 Reg. In EP&SD Current Op. Batter	on (Int.) rrogate smit  ion  sup Batt. slet y No. 1 y No. 2 y No. 3 y No. 4 y No. 5 on

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			SATELLITE	MEASUREN		SYSTEM REQU					z. page 640.7  s. date 1 June 19  4. REPLACES PAGE(S)
	S. PROG	PRO	GRAM 206			5. PROGRAM REQUIR None	EMENT NO.	7. SYSTEM CODE 75664014		8. CONTRACTOR/CONTRACT NUMBER AF 04(695)-469	Original
nd	MEAS. CODE	SENSOR TYPE	12. MEASUREMENT RANGE	13. ACCURACY	PRIORITY	15. SAMPLING RATE	1	ROPOSED SCHED		17. SPECIAL REQUIREM (UNIQUE TRANSDUCER REC (OUTPUT RANGE	UIREMENTS)
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 **16 **18 19 20 21 22 5 22 6 27 **22 9	Voltage Div  Updage Div  Voltage Div  Voltage Div  AMP-HR  Temp.  Temp.  Voltage Div  Voltage Div  Voltage Div  Voltage Pressure	23 to 33 VDC 0 to 5000 psia Discrete Leve	.s	DDDB - BBBBBBAA BBBBBBBC - BBC	5/sec	Orbita (Lin	1 Real Time	e	Stab ER Roll Demodulator Stab EP Pitch Demodulator Stab EP Yaw Demodulator H 30 H30 Continuity & Ever TT&C 10 Percent Calibrati TT&C Secure Word Count 1 TT&C Secure Word Count 2 TT&C Secure Word Count 2 TT&C Secure Word Count 2 TT&C Secure Word Count 2 TT&C Secure Word Count 2 TT&C Secure Word Count 6 TT&C Secure Word Count 6 TT&C Delay Line 1 and 2 F TT&C Delay Line 1 and 2 F TT&C Delay Line 3 and 4 F TT&C 50% Calibration Level Thermo Temp. Cold Gas T Thermo Temp. Cold Gas T EP&SD Ampere Hour Metel EP&SD Ampere Hour Metel EP&SD Ampere Hour Metel EP&SD Ampere Hour Metel CA Temp. OCV Oxidizer T OA Temp. OCV Oxidizer T OA Temp. OCV Fuel Tank EP&SD Command Decoder TT&C 90 Percent Calibratic EP&SD Voltage OCV Batter Stab Press. Attitude Contro Stab Cold Gas Pressure Swi	ats on Level LSD  Cull ull el ank at 38 Deg. nk at 321 Deg. Total Total Total ank (Int) (Int) Voltage Monitor on eles el Storage Tank
\$	SD 58	RM 65		<u> </u>						1. SECURITY CLASSIFICATION	9. REVISION NO.

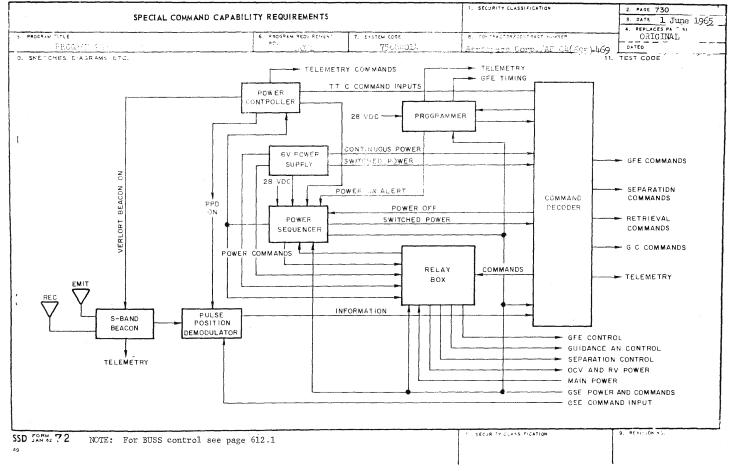
	5. PROG	RAM TITLE	OGRAM 206	MEASONE		PROGRAM REQUIR None		7. SYSTEM COD 7566401		B. CONTRACTOR/CONTRACT NUMBER AF 04(695)-469	4. REPLACES PAGE(S) Original
<u>.</u>	10.	III.	112. ·	13.	14-	115.	16.	1300403	1 1	17. SPECIAL REQU	
and	MEAS, CODE	SENSOR TYPE	MEASUREMENT RANGE	ACCURACY			PF	NSMISSION &	EDULE OF OR STORAGE	(UNIQUE TRANSDUCER (DUTPUT R)	REQUIREMENTS)
13	Pin * 1	Voltage Div  Spare Voltage Div  Pressure Voltage Div Voltage  Voltage  Voltage  Voltage Div  Voltage Div	- Discrete Leve -		B B B B B B B B B B B B B B B B B B B	2.5/sec.	Orbital (Lin		ne	Buss P Axis Magnetom Buss Q Axis Magnetom Buss R Axis Magnetom Buss Selective Address TT&C 10 Percent Calib Buss Mode & Event Mon Sep Separation No. 6 Buss Power Monitor  - Buss Event Monitor - Buss Event Monitor Sep Separation No. 4 Buss Secure Command Buss Command Monitor Sep Separation No. 5 TT&C 50 Percent Calib Buss Buss Gas Pressur Sep Separation No. 7 Buss Voltage Monitor Buss Temp. Magnetome Buss Temp. H/C Elect Buss Buss Gas Temper Sep Separation No. 2 Exp Fet No. 15 TT&C 90 Percent Calib Exp Fet No. 15 Buss Antenna/Magnetom Exp Fet No. 16 -	eter eter Monitor ration nitor  Monitor r - PPD On ration re eter Electronics Timer ronics ature ration
9	SSD JES	RM 65								1. SECURITY CLASSIFICATION	9. REVISION NO.
	5									1	мт

The team was a	By							1. SECURIT	TY CLASSIFICATION	2. PAGE 640. 9
		SATELLITE	MEASURE	MENTS -	SYSTEM REQUI	REMENT	S			3. DATE 1 June 1965
5. PROGR	TAM TITLE	ROGRAM 206			6. PROGRAM REQUIR		7. SYSTEM CODE 75664014		CTOR/CONTRACT NUMBER 04(695)=469	4. REPLACES PAGE(S) Original DATED
		12. MEASUREMENT RANGE	13. AGGURACY	PRIORITY	15,	16. P	ROPOSED SCHEDULE OF ANSWISSION BYOR STORAGE	17.	SPECIAL REQUIREM  (UNIQUE TRANSDUCER REC  (OUTPUT RANGE	IENTS (UIREMENTS)
SRV	Telemetry									
	Axial Acceleration Accelerom			В	Continuous	Re-er	ntry	H-30	Axial Acceleration Switch at thrust-cone 040 g.	separation to
. 9kc	Voltage Di	.Discrete Lev	els	В	Continuous	Re-er	ntry	H-30	Separation and re-en	ry event monitors
.0kc	Voltage Di	.Discrete Lev	els	В	Continuous	Re-en	ıtry	H-30	Ejection Programme:	Event Sequence
SD JER	™ 65				<u> </u>			1. SECURI	TY CLASSIFICATION	9. REVISION NO.

		GENE	RAL	СОМ	1AM	ID RE	QUI	R EM	ENTS					1. SECURI	TY CLASSIFICATION	2. PAGE 740 3. DATE 1 June 196 4. REPLACES PAGE(S)
S. PROC	RAM TITLE	<u> </u>							M REQUIRE	MENT	7. SYSTEM COD	<u> </u>			REMUN TRAST NUMBER	ORIGINAL
	PI	ROGRAM 206				1	NC	, NO	NE		756640	14		Aerospa	ace Corp./AF 04(695)-469	DATED
ITEM NO.	11. TEST CODE	12. COMMAND (TITLE/DESIGNATION)	13.		RAC	CTERI	STIC	s	14, SIGNAL SOURCE	15 T	RANSMITTING STATION	16.	FIRS RANSM	т	DISCUSSION, FUNC	
			PRIMARY TO MISSION	OPERATIONS CONTROL PERFDRMANCE CONTROL	STATUS CONTROL REL AYED	UNIQUE	CODED (STD)	SAT. VERIFIED				THE PROPERTY OF THE PROPERTY O				
1		SSPC 1: Control No. 1	1		77	П	П	x x	STC		A11					
2		SSPC 2. TT&C Control	x	x	х		П	x x	STC		All			<del></del>		
3	<u> </u>	DSPC 1, Secure Commd	x		х	П	11,	xxx	1		All	1				
4		DSPC 2. Control No 2	x	1x	-1-1	$\top$	11	хx	STC		All			·····/································		
5		DSPC 3. Control No 3	x	x	x	TT	П	x x	STC	T	A1.1					
6		DSPC 4. Att. & Vel.	×	x			TT	хx	STC		A11					
7		DSPC 5. Misc	Y	x			П	x x	STC	T	All					
8	1	BTC 1	x x	x			$\sqcap$	x x	STC		All				Enable Programmer Lin	e ]
q	1	RTC 2	x	x		$\Box$	$\Pi$	хx	STC	1	All				Enable Programmer Lin	
1.6		RTC 3	7	x		TT	П	x x	STC		All				Enable Programmer Lin	
11		RTC 4	х	x		$\neg \top$	П	хx	STC	T	All				Enable Programmer Lin	
12		SPARE	Ħ		1	T	П	П								
13		RTC 6	x	T <sub>x</sub>	×П	TT	П	хx	STC		All				Spare	
14		RTC 7	x	x	x	$\top$	П	хx	STC		All				Telemetry Transmitter	Normal
5		RTC 8		x	$\neg$		П	хx	STC		A11				Telemetry Transmitter	Reverse
16		RTC 9	×	x		T	П	хx	STC		All				PPD Off	
17	1	SPARE			11	T	$\sqcap$	1	STC							
18	1	RTC 11	v	x	$\mathbf{x}$	11	11	xx	STC		A11				GFE C17A	
.9		RTC 12	T <sub>v</sub>	$  \mathbf{x}  $		11	$\Box$	xx	STC	1	All				GFE C18A	
20		RTC 13	x	x	x	11	tt	XX	STC		A11				Recorder PB On	
** F	OR SATELL	UM WITH CLASSIFIED FORMAT ITE VERIFICATION METHOD, SEE N VERIFICATION METHOD, SEE P.					w9+4*								Y CLASSIFICATION	9. REVISION NO.

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_		GEN	ERAL	CO	AMA	ND I										2. PAGE 710.1  3. DATE 1 June 196  4. REPLACES PAGE(S)
5. PROGR		rogram 206					6.	PR NO		NONE	MENT	7. SYSTEM COD 7566			e Corp/AF 04 (695)-469	ORIGINAL
IO. ITEM NO.	TEST CODE	12 COMMAND (TITLE/DESIGNATION)	NOISSIN O	CONTROL	STATUS CONTROL B		***************************************		SAT. VERIFIED	14. SIGNAL SOURCE		RANSMITTING STATION	16. FIRS		17. DISCUSSION, FUNC	TION & PURPOSE
21		RTC 14	χ α μ	99	χ F E	ļ S	10		x x		┼	All		-	Recorder PB Off	
22		RTC 15	11	1-1-	x	-	╁		x 3		-	All		· · · · · · · · · · · · · · · · · · ·		
23		RTC 16	x	-1-1-	x-	+	++		X >	4	-	All	<del> </del>		IR scanner search mo Buss Voltage Droppin	
24		Real Time Enable	x		x	<del>   </del> ;		+	XX	STC	+	All			Enables decoder for	
<u> </u>		Weat This Fliants	11	<del>l r</del>	17-	tť	+	+-		210	+	WIT .			execution of RTC's.	receipt and
25		Erase Delay Lines	x	x	х	×		1	хх	STC		All			Erases delay lines.	
26		Zeke 23	×	1	+	1	+	+	x x	STC	$\vdash$	All	-		BUSS Real Time; Turn	s on T & T
27		BUSS Next Station	×	) X		)			хх	STC		All			BUSS Next Orbit; Tur	ns on T & T
28		KlK Zeke 31	х	x		X			хх	STC		All			BUSS Execute	
29		KlK Zeke 32	×	x	Ш	_ x	Ш.		x x	<u> </u>	<u> </u>	All			Enable Primary Comma	
30		ZEKE 26	×	x		x			xx	STC		All			Enable Subsequent Co	mmands
			#													
			11-	1					+							



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	PRIMARY COM				1. SECURITY CLASSIFICATION	2. 700 3. JATE 1 June 1965 4. REPLICES PASEIS)
5. PROGRAM	PROGRAM 205	6. PROGRAM REDUIREMENT	7. SYSTEM	664014	Aerospace Corp./AF 04(647)-469	ORIGINAL
HUMBER	FUNCTION	BIT FORMAT	~	RES	SULTING ACTION	
A 1 80 90 91 970 A - 1	Real Time Command (RTC)	1 2-7			oits: Bits 2, 3, 4, & 5 decoder	S
	Single Stored Programmer Commands (SSPC)	1-3 4-26 27 28 29-31 32-39 40		Time code Time parit Programmer Decoder in Function b	in programmer; not transmitted.  24 4-27 even.  Code "0" indicates Pulse 28.  pulse determines how function outs  15 24-40 even.	bits are translated
	Dual Stored Programmer Commands (DSPC)	1:-40 41-43		Same as SS Preamble i	PC. n programmer; not transmitted.	
	Transmitted as Two 37-Bit Commends	44-66 67 68 69-79 80		Function b Parity (44 Programmer Function b Parity (44	67) Code "1" indicates Pulse 68. its	
	Each command must be preceded and followed by an "S" pulse. Two "T" bits must be transmitted between the 37th information bit and the following "S" pulse.					
D JAN 62	95				1. SECURITY CLASSIFICATION	9. REVISION NO.

Approved for Release: 2024/01/30 C05099025

PRIN	MARY COMMAND FORMAT	12	70000	85-	UIREME		1.	SYSTEM CODE	1. SECURITY CLASSIFICATION 2. TIG. 1 3. DATE 1 JUNE 196 4. REPLACES PASE(S) ORIGINAL
5. PROGRAM TITLE	PROGRAM 206	5.		NONE		, ч т	7. 1	75664014	AF 04(695)-469
NUMBER	FUNCTION		В	IT F	ORMA	T			RESULTING ACTION
Egione agricultura (Print) i Anno anno agricultura (Print) i Anno agricultura	Real Time Commands	<u>P</u>	LS. 2	<u>D</u> 3	14	5	6	MSD 7	PPD NRZ data shunted to programmer Lines 1,2,3, and 4.
RTC 1 RTC 2 RTC 3 RTC 4	Enable Programmer Line 1 Line 2 Line 3 Line 4	0 1 0	0 1 0 1	0 0 1	0000	0000	0000	0	Return to real time mode is by unique stored command or implicit with stored command to turn on PPD.
RTC 5	SPARE								
RTC 6	Spare								-
RTC ?	Telemetry Transmitter Normal	0	0	1	1	0	0	0	Set latch relay. Real time data to the low frequency transmitter; playback or supplemental data to the high frequency transmitter.
RTC 8 RTC 9 RTC 10	Telemetry Transmitter Reverse Pulse Position Demod (PPD) OFF Spare	1	0	0	0	0	0	0	Reset latch relay; reverses No. 7.
RTC 11 RTC 12 RTC 13 RTC 14 RTC 15 RTC 16	GFE 1-C17 GFE 1-C18 Recorder Playback ON Recorder Playback OFF Search ON BUSS Voltage Stepdown Module Bypass	0 1 0 1 1	0 1 0 1	1 0 0 1	0 0 1 1 1 1	1 1 1 1	00000	0 0 0 0 0	

	PRIMARY C	1. SECURITY CLASSIFICATION	2. 740.2 3. SATE 1 June 1965				
5. PROGRAM TITLE PROGRAM 206		6. PROGRAM REQUIREMENT	7. SYSTEM CODE 75664014	8. contractor/contract number Aerospace Corp./AF 04(647)-469	4. REPLACES PAGE(S) ORIGINAL ORIGINAL		
: UI-BER	FUNCTION	BIT FORMAT	F	RESULTING ACTION	The state of the s		
SSPC 1	Computer Phase A	32 - 1		er versenamen en versenamen inden og engage, men virk stillede stille til 100 til 1000 stille en vertir til 100 versenamen still til 100 til 100 stillede stille til 100 til 100 stillede stille til 100 til 100 stillede stille til 100 stille til 100 stil			
	Computer Phase B	32 - 0					
	Recorder Oli	33 - 1		n recorder in slow speed record mode and multiplexers which are to be record			
	Recorder OFF	33 - 0	Turns OF	FF the above.			
	Piggyback 1-1 Piggyback 1-0	34 - 1 34 - 0			٠,		
	Piggyback 2-1 Piggyback 2-0	35 - 1 35 - 0					
	GFE 1-C25	36 - 1 36 - 0					
	Yaw Dead Band, Fine Yaw Dead Band, Coarse	37 - 1 37 - 0		fine attitude control amplifier, yaw coarse attitude control amplifier,			
	Pitch Dead Band, Fine Pitch Dead Band, Coarse	38 - 1 38 - 0		fine attitude control amplifier, pit coarse attitude control amplifier, p			
	Roll Dead Band, Fine Roll Dead Band, Coarse	39 - 1 39 - 0		fine attitude control amplifier, rol coarse attitude control amplifier, r			
SD JAN 62	<u> </u>			1. SECURITY CLASSIFICATION	9. REVISION HO.		

	PRIMARY COMMAND FORMAT		1. SECURITY CLASSIFICATION	2. 740,3 3. DATE 1 June 1965 4. REPLACES PAGE(S)		
5. PROGRAM TITLE PROGRAM 206		6. PROGRAM REQUIREMENT 7. SYSTEM CODE 75664014			Aerospace Corp./AF 04(695)-469	ORIGINAL
NUMBER	FUNCTION	BIT FORMAT		RESULTING ACTION		
SSPC 2	TM Real Time ON	32 - 1  32 - 0  33 - 1  33 - 0  34 - 1  34 - 0  36 - 1		Turns ON both telemetry transmitters with multiplexers, SCO units, sensors, etc required for real time telemetry reference oscillator.		
	TM Real Time OFF			Turns OFF the above.  Tape recorder in high speed playback.		
` ,	Recorder Playback, ON					
	Recorder Playback OFF			Turns OFF tape recorder.		
	Verlort Beacon ON			Turns ON Verlort beacon.		
	Verlort Beacon OFF			Turns OFF Verlort beacon.  Turns ON PPD, and Steps secure word memory unit.		
	Pulse Position Demod. ON					
	Pulse Position Demod. OFF	36. – 0		Turns PPD OFF.		
	GFE 1C25 ON GFE 1C25 OFF Store Command Reset	37 - 1 3 <b>7 - 0</b> 38-0, 39-0		Turns BUSS TM ON (1) or OFF (0)  Every stored command resets timer for 6 or 12 minutes.		
	Timer Reset Inhibit	38-1, 39-0		Prevents timer reset until runout		
*	12 Minutes	38-0, 39-1		Operates as a 12 minute timer until runout		
	±6 v dc Supply OFF	38-1, 39-1		Removes 28v from 6-v power supply supporting command decoder and turns OFF OCV sensors.		
			and the second s			
			Anderson and Ander			
500 Janes 95		I was a second		T	1. SECURITY CLASSIFICATION	9. REVISION NO.

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PRIMARY COMMAND FORMAT					1. SECURITY CLASSIFICATION	2. 740.4  3. DATE 1 June 1965  4. REPLACES PAGE 151
5. PROGRAM TITLE PROGRAM 206		6. PROGRAM REQUIREMENT 7. SYSTEM CODE 75664014			8. contractor/contract vumber Aerospace Corp./AF 04(695) -46	ORIGINAL
NUMBER	FUNCTION	BIT FORMAT				
DSPC 1	Security Key	32 - 39 44 - 66 69 - 73		Enable	following bits.	
	OCV Spin-Up	74 - 1		Spins (	ocv	
	Engine No. 1 ON	75 - 1 75 - 0		Turns : Not re	Engine No. 1 ON. quired	
	Engine No. 2 ON	76 - 1 76 - 0		Turns : Not re	Engine No. 2 ON. quired	
	Disconnect No. 1	77 - 1				
	H30 Arm	78 - 1 78 - 0		Turns progra	ON H30 TM, turns ON H30 beacon	n, and arms recovery
	Spare	79				
D JAN 62 95					1. SECURITY CLASSIFICATION	9. REVISION NO.

PRIMARY COMMAND FORMAT					1. SECURITY CLASSIFICATION	2. 740.5  3. DATE 1 June 1965  4. REPLACES PASE(S)
5. PROGRAM TITLE PROGRAM 206		6. PROGRAM REQUIREMENT 7. SYSTEM COSE 75664014		Aerospace Corp. / AF 04(695)-469		
NUMBER	FUNCTION	BIT FORMAT		RESUI	TING ACTION	
DSPC 2	GFE 1-C1 to GFE 1-C6 at T1	32 to 37				
	Duration T <sub>3</sub> - T <sub>2</sub>	38, 39, 44		38 0 1 0 1 0 1	39 44 Time (seconds) 3.0 0 0 4.2 1 0 5.4 1 0 6.6 0 1 7.8 0 1 9.0 1 1 10.2 1 1 11.4	
	Roll Angle at T <sub>2</sub>	45 to 51		Provi	des angle for roll maneuver betw	ween T2 and T3.
	Roll Rate at T <sub>2</sub>	52, 53		Sets	rate of change in roll maneuver	T3 - T2.
	Duration T <sub>2</sub> - T <sub>1</sub> & T <sub>4</sub> - T <sub>3</sub>	54 - 57 0 0 0 0 1 0 0 0 1 0 0 0 1 1 0 1 0 1 1 1 1 1 1 1 1 0 0 0 1 0 0	0 0 0	Time	(seconds) 3.5 3.9 4.3 4.7 5.1 5.5 6.3 6.7 7.1	
SSD JANES 95			<u>_</u>		1. SECURITY CLASSIFICATION	9. REVISION NO.

Approved for Release: 2024/01/30 C05099025\_\_\_

	PRIMARY COMMAND FORMAT			1. SECURITY CLASSIFICATION	2. 740.6  3. DATE 1 June 196  4. REPLACES PASE(S)
5, PROGRAM TITLE	Program 206	6. PROSRAM REQUIREMENT NONE	7. SYSTEM CODE 75664014	8. CONTRACTOR/CONTRACT NUMBER Aerospace Corp/AF 04(695)-4	ORIGINAL
NUMBER	FUNCTION	BIT FORMAT		RESULTING ACTION	
DSPC 2	Duration T <sub>2</sub> - T <sub>1</sub> (continued)	1 1 0 1 0 0 1 1 1 0 1 1 0 1 1 1 1 1 1 1		Time (seconds)  7.9 8.3 8.7 9.1 9.5	
	GFE 1-C1 to GFE 1-06 at To	58 to 63			
	Roll Angle at $\mathbf{T}_{l_{\!\scriptscriptstyle \parallel}}$	64, 65, 66 and 70, 71, 72	69,	Provides angle for roll maneuver has sequence.	etween $T_{l_1}$ and $T_{l_2}$ of
	Roll Rate at $\mathtt{T}_{l_{4}}$	73, 74		Provides roll rate for above maneu	ver.
	GFE 1-C8 to GFE 1-C9 at T <sub>4</sub>	75, 76			
	GFE 1-ClO to GFE 1-Cl2 at T <sub>4</sub>	77 - 79			
D JAN 62 95				1. SECURITY CLASSIFICATION	9. REVISION NO.

	PRIMARY COMMAND FORMAT						ECURITY					3.	2 740.7  3. DATE 1 June 196  4. REPLACES PAGE(S)		
5. PROGRAM TITL	PROGRAM 206	6. PROGRAM REQUIREMENT NO. NONE	7. SYSTEM COOE 7566401	14		1	OSPAC				5)-46	9 -	ATED	RIGINAL	
NUMBER	FUNCTION	BIT FORMAT	BIT FORMAT			RESULTING ACTION									
DSPC 3	GFEL-C1 to GFE 1-06	32 thru 37													
	Duration T <sub>2</sub> - T <sub>1</sub>	38 thru 39, 44 thru 51		38 0 1 0	39 1 0 0	1 1 1 0	1 1 1 1	46 1 1 1	147 1 1 1	1 1 1 1	49 1 1 1 1	50 1 1 1	51 1 1 1	Time .1 .2 .3	
				0 1 0 1	0 1 1 0 0	1 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	101.9 102.0 102.1 102.2 102.3 102.4	
	Spares	52 <b>-</b> 63													
	Roll Angle at T <sub>2</sub>	64,65,66,69,70,7	1,72												
	Roll Rate at T	73, 74													
	GFEL-C8 to GFEL-C9 at T,	75, 76													
	GFEL-ClO to GFEL-Cl2 at T2	77, 78, 79										,			
SD JAN 62 95						1. SE	CUR! TY CI	A 551 F1C	ATION		*************	9. R	EVISION	NO.	

Approved for Release: 2024/01/30 C05099025

	PRIMARY COM	MAND FORMAT		·	2 740.8 3. JATE 1 June 1965			
5. PROGRAM TITUE	PROGRAM 206	6. PROGRAM REQUIREMENT 7. SYSTEM CODE 75664014		8. CONTRACTOR/CONTRACT VUMBER Original AF 04(695)-469				
NUMBER	FUNCTION	BIT FORMAT	RESU	LTING ACTION				
DSPC4	Recorder ON OFF	59-1 59-0		Turns on recorder in slow speed record mode as well a associated multiplexers and SCO units.				
	Yaw Low Level ON	60-1	Low 1	oneumatic torque.				
	Yaw High Level ON	60-0	High	pneumatic torque.				
	Pitch Low Level ON	61-1	Low 1	oneumatic torque.				
	Pitch High Level ON	61-0	High	pneumatic torque.				
	Roll Low Level ON	62-1	Low I	oneumatic torque.				
	Roll High Level ON	62-0	High	High pneumatic torque.				
	Spare	63						
	Yaw Dead Band Fine	64-1	Selec	ts fine band yaw control.	•			
	Yaw Dead Band Coarse	64-0	Selec	ts coarse band yaw control.				
	IR off & Disc. #1 enable	65-1	Enabl	es execution of IR off and Di	sc. #1			
	IR off & Disc. #1 disable	65-0	Disab	Disables above				
	ACA off & Spin-up enable	66-1	(DSPC	Enables execution of ACA off (DSPC-5 Bit 62) and Spin-up On (DSPC-1 Bit 74)				
	ACA off & Spin-up disable	66-0	Disab	les above.	w			
	Pitch Dead Band Fine	69-1	Select	s fine band pitch control.				
	Pitch Dead Band Coarse	69-0	Select	s coarse band pitch control.				
*	Roll Dead Band Fine	70-1	Select	s fine band roll control.				
	Roll Dead Band Coarse	70-0	Select	s coarse band roll control.				
	RH IR Pre Amp Record	71-1	Connects RH IR to 10.5 KC S.C.O. and disconnects $30 \times 2.5 \text{ multiplexer}$					
	RH IR Pre Amp			Disconnect RH IR from 10.5 KC S.C.O. and connects 30 x 2.5 multiplexer				

	PRIMARY COMMAND	6. PROGRAM REQUIREMENT			8. CONTRACTOR/CONTRACT NUMBER	4. REPLACES PASEISI Original		
5. PROGRAM TITLE	PROGRAM 206	NONE	7. SYSTEM COOE 75664014		AF 04(695)=469	DATED		
NUMBER	FUNCTION	BIT FORMAT		RESU	LTING ACTION			
DSPC4 (con't.)	Fly Forward	72-1		Returns to gyro compass forward control and turns off yawing torque.				
	Yawing Torque ON	73-1		Vehicle yaws at 0.5 deg/sec.				
	Yawing Torque Not ON	73-0		Nothin	g.			
	GFE 1-C20 & GFE 1-C21 enable	74-1						
	GFE 1-C20 & GFE 1-C21 disable	74-0						
	Fly Reverse	75			ses gyro compass and turns es yaw gyro.	OFF yawing torques;		
	GFE 1-20 SET	76-1						
	GFE 1-C20 RESET	76-0						
	GFE 1-C21 SET	77-1						
	GFE 1-C21 RESET	77-0						
	Rate Roofs OFF	78-1		Remov	es rate limits.			
	Rate Roofs ON	78-0		Limits	rates of angular change wh	nen in fine dead band.		
	GFE 1-C24	79-1						
	GFE 1-C24	79-0		Ì				
					*			

, PROGRAM TITLE	PRIMARY COMMAND FORM	6. PROGRAM REQUIREMENT	7. SYSTEM CODE		8. CONTRACTOR/CONTRACT NUMBER	3. DATE 1 June 196 4. REPLACES PASE(5) Original			
	PROGRAM 206	"O NONE	75664014		AF 04(695)-469	DATED			
NUMBER	FUNCTION	BIT FORMAT		RESU.	LTING ACTION				
DSPC 5	Spare	32							
	Separate OCV/Agena	33-1		Fire C	OCV/Agena separation squi	b.			
	·	33-0		Nothin	ng.				
	Uncage Roll and Pitch Gyros	34-1		Uncag	e roll and pitch gyros.	•			
		34-0		Nothin	ng.				
	Predac Bypass	35-1			to over-ride roll commands ero command prior to pitch				
	Predac Normal	35-0		Nothing.					
	Uncage Yaw Gyro	36-1			Uncage yaw gyro.				
		36-0			g.				
	Battery Reset	37-1			oller Power Transfer Reset				
		37-0		Nothin	ıg.				
	Computer Prearm	38-1							
		38-0		Nothin	g.				
	Pitch Zero	39-1		Vehicle in horizontal position.					
	*	39-0		Nothing.					
	Pitch Down	44-1		Vehicle in pitch down position.					
		44-0		Nothing.					
	GFE Environ. Control ON	45 - 1		Turns	on GFE environmental con	trol.			
		45-0		No action.					
	GFE Environ. Control OFF	46-1		Turns off GFE environmental control.					
		46-0		No act	ion.				
						9. REVISION NO.			

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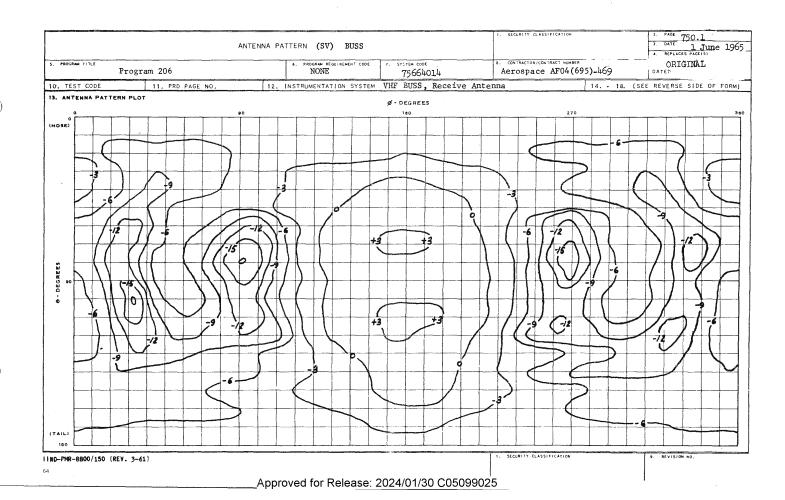
	PRIMARY COMMAND FORMAT	,				2. 740, 11 3. JATE 1 June 196 4. REPLACES PAGE(S)		
POGRAM TITLE	ROGRAM 206	6. PROSPAM REQUIREMENT NO. NONE	7. SYSTEM CODE 75664014		B. CONTRACTOR/CONTRACT NUMBER AF 04(695)-469	Original		
NUMBER	FUNCTION	BIT FORMAT		RESU	JLTING ACTION			
DSPC 5 (con't.)	OCV Propellant Tank Pressure	1			Pressurizes OCV propellant tanks.			
	OCV Attitude Control Pressure	1			surizes attitude control gas	system.		
		48-0		Nothing.				
		49-1		Nothi	ng.			
	OCV Spin-up Off	49-0		ocv s	pin-up Off			
	IR Signal On	50-1 .		Connects output of IR sensors to platform torquing electronics.				
	IR Signal Off	50-0		Disco	nnect IR sensors.			
	Search Off	51-1		Disconnects Roll & Yaw Torquer Motors from Torquer electronics eliminating effect of drift of electronics on platform.				
	Spare	51-0		Nothing				
	Spare	52-1		Nothing				
	Spare	52-0		Nothing				
	Spares	53, 54						
	GFE 1-C15 OFF GFE 1-C15 ON.	55-1 55-0						
	Spare	56-1		Nothing				
		56-0		Nothing				
	FEC 3-1 FEC 3-0	57-1 57-0						
	GFE 1-C16 SET GFE 1-C16 RESET	58-1 58-0						
D JAN 92 95					1. SECURITY CLASSIFICATION	9 REVISION NO.		

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	PRIMARY COMMAND FOR	MAT				3. JATE 1 June 196 4. REPLACES PASEISI		
S. PROGRAM TITLE	PROGRAM 206	6. PROSRAM REQUIREMENT NO. NONE	7. SYSTEM CODE 75664014		8. CONTRACTOR/CONTRACT NUMBER AF 04(695)-469	Original		
NUMBER	FUNCTION	BIT FORMAT		RESU	ULTING ACTION			
DSPC5	Spare	59-1		Noth	Nothing			
(con't.)	Spare	59-0		Noth:	ing			
	H30 Transfer	60-1		Initia	ate H30 SRV battery and in-f	light disconnect.		
		60-0		Noth	ing	•		
	GFE1-C24	61-1		l				
		61-0						
	Attitude Control ON	62-1		Ener	Energize attitude control subsystem.			
	Attitude Control OFF	62-0		De-e	energize attitude control subs	system.		
	Spare	63 - 72						
	Computer Timer Bypass	73-1			sses timer associated with o	computer operation.		
	Computer Timer Normal	73-0			rns to normal state.			
	FEC 4-1	74-1		To be used as required by experiments.				
	FEC 5-1 FEC 5-0	75-1 75-0		To be used as required by experiments.				
	H30 Arm	76-1		Turn on T/C battery in capsule				
		76-0		Noth	ing.			
	S/A 3 & 4	77-1		Activ	vates S/A 3 and 4			
		77-0		Nothi	ing.			
•	Spare Spare	78-1 78-0						
	Adapter/SRV	79-1		Separates SRV from OCV Firing pin puller squibs.				
		79-0 N			Nothing.			
DSPC 6	Not Implemented							

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DI COME TT. DA CHE LUD. CUDADI TELATO	TOW AND GOIGHNE GROWN		1 SECURITY CLASS:	2. PAGE 750		
BLOCK II BACK UP STABLIZAT				3. DATE 1 June 1965		
	5. PROGRAM REQUIREMENT CODE 7		8. CONTRACTOR/CONTRACT NUMBER	ORIGINAL		
PROGRAM 206	NONE	75664014	Aerospace Corp./AF 04(695)-469	DATED		
10. CHARACTERISTICS	11. TRANSMITTER CHARAC	TERISTICS N/A	12. RECEIVER CHARACTERISTICS			
A. TEST CODE:	A. FREQUENCY RANG	Ε:	A. FREQUENCY RANGE: 100 to FREQUENCY CARRIER: 141.5	+ mc <b>ps (S.V.</b> 951 - 963		
B. DESIGNATION:	B. TUNABLE [ FI	KED-TUNED	137.64 mcps (	(S.V.964 and subseque		
C. TYPE & PURPOSE:	C. BANDWIDTH AT 3DE	1				
	AND AT 60D	В	C. INTERMEDIATE FREQUENCY:			
D. BEACON CHARACTERISTICS:	D. EMISSION: AM [ COMPOSITE NON		D. LOCAL OSCILLATOR FREQUEN  BELOW IN TERROGATION FR			
	E. FREQUENCY STABI	ITY:	E. METHOD OF FREQUENCY CONT	ROL:		
E. POWER REQUIREMENTS: 25.5 ± 3.5 VDC 3 WATTS	F. AVERAGE POWER:		F. FREQUENCY STABILITY: ±2 KG	ps @ -20° to +70°		
	G. FIXED DELAY:		G. SENSITIVITY: MAXIMUM: 1.5 UV 75% mod.			
F. CONFIGURATION:	H, MAXIMUM VAS STRENGTH MAXIMUM SENSITIVI	TO WITH SIGNAL TO WITHIN 5DBM OF	MINIMUM: 2000 uv 3 volts across 50 on nominal: output			
	MAXIMOM SENSITIVE	, , , , , , , , , , , , , , , , , , , ,	H. SELECTIVITY: (OVERALL)	,		
G. SYSTEM OPERATION	I. TIME:		6DB: 3.5 + 7-1 Kcps			
TO COLL DE LOS DE LA COLLEGA D			20 DB:			
BLOCK DIAGRAM ON PAGE 612.1	J. MINIMUM FREQUEN REQUIRED BETWEE	the state of the s	sods: 110 Kcps			
SEE SYSTEM DESCRIPTION - PAGE 750.2	AND RECEIVER:		<ol> <li>IS THERE AVAILABLE A SPECT</li> </ol>	RUM ANALYSIS REPORT		
DEE BIBLEM DESCRIPTION - PAGE 170.2			ON THIS RECEIVER COVERING	THE FREQUENCY		
	K. IS THERE AVAILAB	E A SPECTRUM	RANGE 100 NC TO 10,000 MC?			
	ANALYSIS REPORT	ON THIS TRANSMITTER	TYES 🔀	40		
	YES IIF YES, PROVIDE C	NO NE COPY)	(IF YES, PROVIDE ONE COPY)			
			J. SPECIAL FEATURES: a. Erectable dipole ant	enna at station 160		
	L. ATTACH A PLOT OF		b. Antenna pattern on p			
	POWER VS. TRANSM	ITTER FREQUENCY.	c. Amplitude Modulated			
		1	1 SECURITY CLASS:	9. REVISION NO.		



	BACKUP STABILIZATION SUBSYSTE		2. 750.2 3. DATE 1 June 1965 4. REPLACES PAGE(S)		
j	5. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CONTRACTOR/CONTRACT NUMBER	ORIGINAL
	PROGRAM 206	Aerospace Corp./AF 04(695)-469	DATED		

The function of the BUSS Command System is to active ate the BUSS Attitude Control Subsystem and to control the sequence of events for mission termination through the Separation Programmer of the Satellite Vehicle Separation Subsystem. There is direct radio access to the BUSS Subsystem at all times subsequent to orbit injection. Access will be by amplitude modulated VHF carrier. There will be two possible modes of operation. The BUSS Real Time Mode (BRT) terminates the mission in the same orbit in which the command is transmitted. The BUSS Next Station Mode (BNS) is transmitted from POGO and terminates at KODI. The BUSS termination sequence is redundant to a similar sequence furnished by the Satellite Vehicle Primary Command System. The performance of the BUSS Subsystem is monitored by

the primary telemetry system on the playback transmitter (Delta 3) provided that the signal data recorder has been commanded to the OFF position.

## Command Structure

A selective address for the BUSS System has been incorporated into vehicles 964 and subsequent.

Commands are inserted into the BUSS System to choose a specific mode of operation and to execute the chosen mode. i.e., to choose either the BRT or the BRS mode. The mode is selected by one of two commands following the vehicle address command. The vehicle address is the tone pair "EG", which enables receipt of mode commands for approximately 7 seconds. In addition to the selection of the recovery mode, the mode commands turn on the BUSS control electronics and the primary telemetry system in the proper configuration to monitor BUSS. The mode is executed by a secure command consisting of a 35 bit word, the logical components of which consist of single audio tones. A second secure word is available to command access to the primary command system.

The command structure is as follows:

	<u>Command</u> Unsecure		Tone		Result	
			EG		Vehicle address	
	Unsecure Unsecure		GE FG		Arm mode "BNS" Arm mode "BRT"	
			4 U		and the second s	
	Secure		A		Power supply enable	
	Secure		.8		Logical "1"	
	Secure		C		Logical "0"	
	Secure	*	D		Reset	
The audio tone fre	quencies are:					
	A	4.3 kcps		E	4.9 kcps	
	· B	4.1 kcps		F	5.1 kcps	
	C	4.5 kcps		G	5.3 kcps	
	D	4.7 kcps				

SSD JAN 62 95

TRACKING NE		2. PAGE 810 3. DATE 1 June 1965		
S. PROGRAM TITLE	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CONTRACTOR/CONTRACT NUMBER	4. REPLACES PAGE(S) ORIGINAL
PROGRAM 206	NONE	75664014	Aerospace Corp./AF 04(695)-469	DATED
to DESCRIPTION			11.	TEST CODE

10. DESCRIPTION

- 1. The SCF tracking station net must support Program 206 in connection with the following activities:
  - a. Operational readiness tests.
  - b. Integrated tracking system tests.
  - c. Operational tracking, telemetry reception, and command transmission as required.
  - d. Transmission of the data in Item c, above to STC in real time or as required.
  - e. Magnetic record of TM data and signal strength should be made at each station pass.
- 2. The above activities will be implemented as scheduled by STC in support of Program 206 launch schedules.
- 3. Tracking instrumentation will be calibrated as immediately prior to each operation as is practical, with calibrations checked just prior to each pass to insure continued data accuracy. Any deviations from the allowable range will be reported to STC immediately.
- 4. Inability to comply with the operations schedule will be reported to STC when known, along with an estimate of time required to regain a state of readiness.

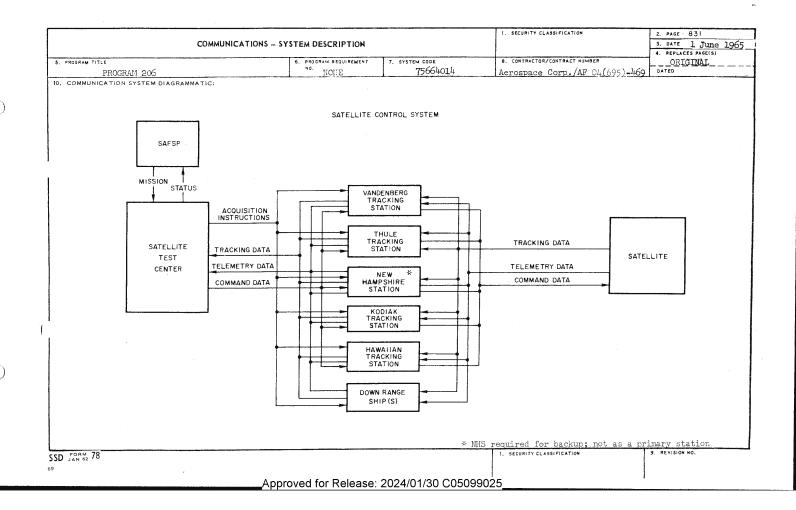
SSD 200 73

1. SECURITY CLASSIFICATION

			COMMUN	ICATIONS -	GENERAL CRITI	ERIA		1	. SECURITY CLASSI	FICATION	2. PAGE 830 : 3. DATE 1 June 1965 4. REPLACES PAGE(S)
5. PROGRAM TI	TLE			AVI		EQUIREMENT	7. SYSTEM CODE		. CONTRACTOR /C		ORIGINAL
	PROGR.	AM 206			NONE.		7566401	4	Aerospace Cor	./AF 04(695)-46	91
10. CATEGORY	11. TYPES	12. BAND WIDTH	13. RATE	14. CHECK SYSTEM	15. PERMISSIBLE ERROR RATE	16: ST	ATIONS TO	17. SCHEDULE OF OPERATIONS	TIME	19. SPECIAL MESSAGE CHARACTERISTICS	20. REMARKS
1. Command Frans- mission	Crypto	As required to trans mit information	ond each way, 8000 command message bits in	bit com- parison by compu- ter after round- trip trans- mission.		See below	v See below	Variable, a required by orbit.  North-to-south and south-to-north station passes on 24-hr basis durin operations.	for simultaneous two-way transmissic of 8000 bits,7.5 minutes for 17,000 bits	n	
2.Telemetry Data Ground Trans- nission		As required for information.	See Remarks	None	l in 10 <sup>5</sup> with 0.98 probability	11		17	During pass and subse- quent 30- minute interval		Selected or compressed telemetry data in real time, plus post-pass, as supplied by Aug- mented system. TM & Track data to be time- shared for most effecti use of 1200 bit/sec data lines.
3.Tracking		As re- quired for data	See Remarks	None	1 in 105 with 0.98 probability	11	11		During pass		
SSD FORM 77		<u></u>	<u> </u>			<u> </u>		1	1. SECURITY CLASS	FICATION	9, REVISION NO.
7			-		Approved fo	r Release	e: 2024/01/	30 C05099	025		1

			СОММИН	CATIONS =	GENERAL CRIT	ERIA			SECURITY CLASSI	IFICATION	2. PAGE 830 .1 3. DATE 1 June 196 4. REPLACES PAGE(S)
. PROGRAM TI		ROGRAM 20	6			NONE	7. SYSTEM CODE 75664014			ontract number orp./AF 04(695)4	ORIGINAL
CATEGORY	11. TYPES	12. BAND WIDTH	13. RATE	14. CHECK SYSTEM	15. PERMISSIBLE ERROR	16: ST	ATIONS	17. SCHEDULE OF	18. TRANSMISSION TIME	19. SPECIAL MESSAGE	20. REMARKS
		WILLIA		3131EM	RATE	FROM	то	OPERATION	S INTERVAL	CHARACTERISTICS	384
:.Special N	≀ave	Suffi- cient for two- 100kc base band TLM channels	As Require	<b>N</b> one d	l in 10 <sup>4</sup> with 0.98 probability	VTS	STC	All VTS station passes	During VTS passes and launch		Analog strip chart recordings are required twice per day at the STC for detail analysis of vehicle health.
s above			West-constitution and the second seco			-		The state of the s			Minimum requirement if 100 wpm TTY system is used. Se Note (1)
.,2,3,4						VTS	STA				a, b, c, e, f
,2,3						HTS	STA				a, b, c, d
,2,3						KTS	STA				a, b, c, d
,2,3						TTS	STA				a, b
N	OTES (1	(b) 10	O-wpm TT)	(/alterna	te voice: ful	ll duplex (	c) 60-wom T	TY: half d	mlex (d) 60-	rypto TTY: full wpm TTY/voice: alf duplex to l	duplex half duplex and aunch control area.
.	(2)	) 1200 b	it/second	l Augment	ation lines wi	ill transmi	t TLM data	and Track de	ata.		
	(3)	) All de must b	ta yieldi e transmi	ing any in	nformation on cryptographics	the nature ally secure	or degree techniques	of success	of Program 20	6 will be class	ified SECRET and
THE CHARLES A CONTRACT OF THE CHARLES	4										
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		COMMUNICATIO	NS - RECOR	DING	s		1. SECURITY GLASSIFICATION	2. PAGE 832 3. DATE 1 June 1965 4. REPLACES PAGE(5)
5. F	ROGRAM TI	TLE	6, 9935	PAM R	COULFEMENT	7. SYSTEM CODE	8. CONTRACTOR CONTRACT NUMBER	ORIGINAL
		FROMUL 205	40	110	112	75664014	Aerospace Corp./AF 04(647) -469	DATED
10. ITEM NO.	11. TEST CODE	12. REQUIRED RECORDINGS	13. TIM CORREL YES		14.	RATION OF RECORDINGS	15. PURPOSE AND REMA	
1	Α	STC to Tracking Station, Voice Circuits	X	autorida de ridigione de consul	During a	ll active station	Postflight evaluation and occapost-pass evaluation.	asionally for
2	A	Command Lists	х			ommand-list trans- between STC and	Postflight evaluation and occapost-pass evaluation.	sionally for
3	A	Telemetry Data	х		During t informat		Postflight evaluation and occa post-pass evaluation.	sionally for
1.2	A	Tracking Data	х		During t informat		Postflight evaluation and occapost-pass evaluation.	cionally for
							-	
Posterior de constitución de constitución de constitución de constitución de constitución de constitución de c			The state of the s					
-								
SD	FORM 7	79					1. SECURITY CLASSIFICATION	9. REVISION NO.

	SY	STEM TIM	NG - PROGRA	M FUNCT	IONAL TI	AING REQUIR	EMENTS;			1. SECURITY CL	ASSIFICAT	NON	3. (	PAGE 84 PAT" 1 REPLACES P	June 1965
g, 3s	DISPLANT THEE	·			6. PROGE	AM REQUIREME	NT 7. SYSTEM	CODE		6. CONTRACTO				ORIGIN	AL
	PROGRA	M 206			NO.	NONE	75	664014		Aerospace		F 04(695)		E'	
12 ST	TIMING SYSTEMS (*)	11. 31374( 50.70F	TRANSMISSON		RACY	15.	TIME-DEPEND	ENT FUNCT	IONS		TIE.	IZATION	17. D	ISTRIBUTIO	ON /
			MODULATION CODING	43501 27 2	SEL TIVE.	CPERATION	ME ASUREMENT	EVENT	PROCE		EVENT CONTROL	DATA CORRELATION	TRACK NE STATIONS	AREAS	OTHER
A	SCF Type A	WWV corre- lated local frequer	Hard Wire: (See ORD 842)		1 ms		acking, telo 1 data will						VTS TIS NHS* KTS HTS		
		rrequer standar					-						111,0		
			*NHS wil	i be use	d for ba	ckup only,	not as a pr	imary st	ation				-		
:- DE	SIGNATUL NEW REQUIRE	MENT.	· BETWEEN TWO	DESIGNAT	ED DATA ST	ATIONS.				1. SECURITY CL	ASSIFICAT	ON	9. RI	EVISION NO.	
	≡овм оД			Ар	proved	for Releas	se: 2024/01	/30 C05	0990	25			1		

		SYSTEM TI	MING - DESI	GNATIONS AND	ACCURAC	IES			1. SEC	URITY CLASSIFICATION	2. PAGE 841 3. DATE 1 June 1965 4. REPLACES PAGE(5)
1. PF	PROGRAM 206			6. PROGRAM	REQUIREMENT	7. 51	75664014		1	tractor/contract number pace Corp./AF 04(695)-469	ORIGINAL
O. FEST CODE	11. TIMING REQUIREMENT	12. SYSTEM RESOLUTION	<sup>13</sup> - TIME BASE	14. TIME CODE SYSTEM	15. CODE	RATES	16. CODE RESOLUTION	17. TIF CORRE		18. REMARKS & SPECI	AL CRITERIA
	DESIGNATION FOR FUNCTIONAL USE	MICRO SECONDS	START OF CYCLE	CODE FORMAT	FRAMES PER SECOND	BITS PER SECOND	MILI SECONDS	LOCAL, MILISEC	SYSTEM, MILISEC		
A. B	ULTIMATE REFERENCE SYSTEMS All tracking, telemetry, acquisi- tion, and control data will be labeled. WWV or WWVH signals cor- related to local frequency standards		24 hrs	binary	1	20	4000	l ms	5 ms	Time code format: Augm code	entation 17-bit tim
A B	OPERATING REPERENCE SYSTEMS Time reference for satellite vehicle stored commands. Clock in satellite vehicle only. Telemetry signals received correlated to local time generated by SCF- Augmented System.	10,000	9.7 days	binary	1.25	500	100	10 ms	10 ms		
50	FORM SI	:							1. SECUR	ITY CLASSIFICATION	9. REVISION NO.

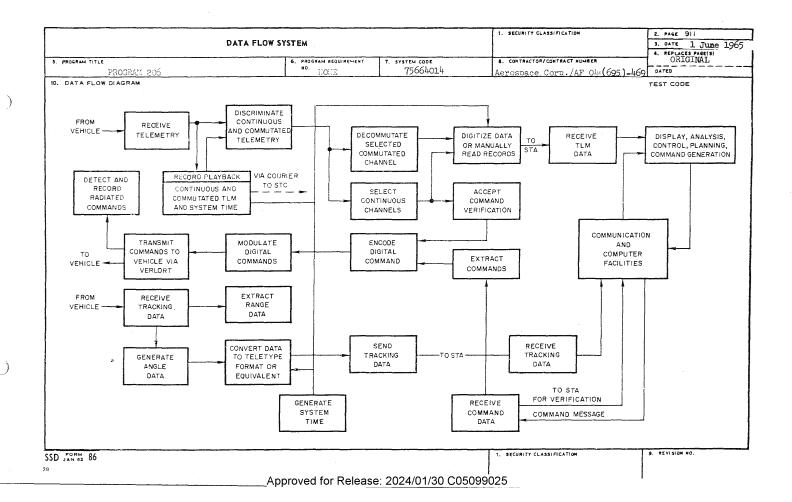
			1. SECURITY CLASSIFICATION	2. PAGE 842
SYSTEM TIMING - SUGGES	TED CODE METHODS			3. DATE 1 June 196
	6. PROGRAM REQUIREMENT	7. SYSTEM CODE	8. CONTRACTOR / CONTRACT NUMBER	ORIGINAL
PROGRAM 235	NO. NOHE	<b>}</b>	Aerospace Corp./AF 04(695)-	OUTGINE
		75664014	Aerospace Corp./Ar 04(095,=	13. TEST CODE
		12. STATUS	: PROJECTED : PROPOSED	13. FEST CODE
Augmented 17-bit TTY		EXISTING (X	1: PROJECTED []: PROPOSED []	
CODE SYSTEM:  A. TYPE: PULSE WIDTH X. AMPLITUDE, PRESENCE OTHER	:, POSITION ·	C. CODE RA  D. FRAME R.  E. PULSE DI  REFER: INDEX	TE: 17 DIGIT, 20 F  ATE: 1 FRAMES/SEC  JRATION: ENCE MARKER 50 M SEC  MARKER (0) 15 M SEC  JOINT (1) 30 M SEC  SOLUTION	Ps.
TIME STARTS - C. C. C. C. C. C. C. C. C. C. C. C. C.	\$ 1 2 3 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SEC	Pulse rate = 20/s  Time is equal to decin	oinary readout mal.
		6 7 8 9 10	Pulse rate = 20/so	pinary readout mal. trailing edge of

	····	ADJUNCT OPERATIONS - TEST AND/OR						1. SECURITY CLASSIFICATION	2. PAGE 850 3. DATE 1 June 1965 4. REPLACES PAGE(S) ORIGINAL
S. PR	DGRAM TI			REQUIREMENT	7. SYST	ем соре 5664014		8. CONTRACTOR/CONTRACT NUMBER Aerospace Corp./AF 04(695)=46	
10,		PROTEST 205	L	IONE Ita.	1	14. EFFEC	TIVITY	15.	9
ITEM NO.	TEST CODE	OPERATION		REFERE REGUIREN		LOCATION	DATÉ	REMARKS	
1	, <u>1,</u>	Operate the OCV and adapter as a deve vehicle after the SRV has been separa and deboosted				After SR re-entry.		Mission capability will become much shorter time, inasmuch a gained earlier and non-nominal may be performed.	s experience can be
2		(See Page 630). Record information rover transmission link Al during at lestation pass per rev.				On select flights; 7200 seco after law	up to onds	This recording is not a Program and is to be accomplished with with 206 operation.	
		•							
Mrs de resservantes								•	
SSD	FORM AN 62	83		<u> </u>				1. SECURITY CLASSIFICATION	9. REVISION NO.
74			aved for	Release:	2024/(	11/30 (-04	รกดดกว	5	-

		ADJUNCT OP ER AT 10t	NS - METEOROLOGI	CAL MEASU	REMENTS			1. SECURITY CLASSIA	FICATION	2. PAGE 851 3. DATY 1 June 1965 4. REPLACES PAGE(5) ORIGINAL
5. P9	OGRAM TIT	ie Program 206		ROGRAM REQUIRE		7. system code 756640			o./AF 04 <b>(695)-469</b>	ORIGINAL
TEM NO.	TEST CODE	DATA REQUIRED	13. STATION	DATE (LOCAL)	TIME AN	INTERVALS	ALT-K FT	15, MEASUREMENT ACCURACY	PURPOSE	AND REMARKS
1		Geomagnetic amplitude $A_k$ (analog of $A_p$ )	Malibu, Calif. Fredericksburg Va.	2 days prior to planned operatio through flight.		24 h	K/A	tl Gamma	atmosphere model	to the time-varian in the Orbit Determ n Planning programs
2		Solar Flux (F <sub>10</sub> )	National Re- search Council Otteva, Canada	2 days prior to planned operation through flight.	រន	3년 개	N/A	±2\$	Same as Item 1. data is regularly from North Atlant. Service, Ft. Belve	ic Radio Warning
3		Ionospheric Absorption above Artic Circle (PCA)			ıs	2l+ h	Ionosphere	±1 db	For required 1-da	y A <sub>p</sub> predictions.
4,		Radio Propagation Predictions	RCA, New York; Ft. Belvoir, Va Boulder, Colo.	prior to	ıs	24 h	N/A	n/A	For required 5-day predictions.	y advance A
5		Solar Flare Observations	Ft.Belvoir,Va.	As they occur.		N/A	N/A	N/A	For required 2-day	$A_{ m p}$ predictions.
SD .	FORM 84	4	<u> </u>		L			1. SECURITY CLASSIF	FICATION	9. REVISION NO.

		GENERA	L DATA PR	OCESSING REG	UIREMENTS		www.co.co.co.co.co.co.co.co.co.co.co.co.co.	1. SECURITY CL	ASSI FI	CATION			2. PAGE 910 3. DATE 1 June 1965 4. REPLACES PAGE(S)
5. TEST PROGRAM		RAM_206		6. PROG NO.	RAM REQUIREMEN	7566401		a. contractor Aerospace Co		AF OL	 1 <b>(</b> 695	)-469	ORIGINAL DATED
IC. TYPE OF DATA	BIT RATE	12. DATA RATE	13. QUANTITY	14. TYPE OF PROCESSING	15. RECORDING	16. DISPLAYS	EVALUATION &/OR VERIFICATION	16. DISPOSITION	19. AVA	TIME		20.	REMARKS
TRACKING S-Band Radar (All stations)	-	R,A,E, each four seconds.	Maximum Number station passes pe day,3-6 min dura- tion each		Punch paper tape or magnetic tape record of digitize data.	See Remarks	See Remarks	Processed ligital data transmitted to STC for phemeris computation by CDC 1604 computer		Rema	PHOTO	Equipmedigited transment and tindata	ment for analog to al processing and mission of data to ill be at least equi to existing equip- us far as accuracy ime availability of tt STC are concerned
TELEMETRY PAM/FM/FM Real Time Link	tated poi must be p 3.6 minut outs of p	nts from rovided o es durati oints on	4 different n each st on. Speci additions	45 commu- nt channels ation pass, al read- l channels d passes.	Magnetic tape record ing of base band (0-100kc)	*		rocessed lata trans- mitted to STC by voice and TTY (or equivalent).		Rema		points during remair utes s	one-half of these will be received to the pass and the der within 30 min-lifter the pass.  RD 910.1)
Fransmitted Command	410-630 bits/seco depending on S-Band Radar PRF	110	bits in one com- plete command	Detect com- mand modula tion of radiated S- band rf.	Magnetic ta recording o detected in formation from the ra only.			Magnetic tap to be trans- ferred to ST bost flight.				data s netic lent t	nent for processing and recording on mag tape can be equiva- to existing equipment acking stations.
PAY LOAD Not Applicable				This recording to be maintained separate freal other recordings.									
	Processin data whic ground at be requir	h has bee 4 times	n telemet recorded	ered to speed will	Magnetic tape record ing of base band (0-100kc).	-		Processed data trans- mitted to STC by voice and TTY (or equivalent).	See	Rema.	rks	quired half h statio	points will be re- at STC within one- our after the n pass.  1: 1. FORMATS 2. FLOW CHART
SSD JAN 67 85	<b>L. V. Berry V.</b>			<u></u>				, SECURITY CLAS	SIFICA	TION		9	. REVISION NO.

-		GENERA	L DATA PR	OCESSII	NG REC	QUIREMENTS					1. SECURITY CL	ASSI FI	CATION	ı	-		910.1 June 196
5. TEST PROGRAM	Filtra.	2.2	***		6. PROC	IOHE HERDING	7. ARI	75664	EM CODE 014		a. contracto Aerospace C		AF O	4 ( 695	1-469		GINAL
10. TYPE OF DATA	11. BIT RATE	DATA RATE	13. QUANTITY	14. TYPE PROCE		15. RECORDING	IE, DISPI	_AYS	EVALUATIO 8/OR VERIFICATIO	2	DISPOSITION	19.	AIL ABI TIME	LITY	20.	REMAR	KS
TRACKING												RAW	RED	РНОТО			
		AND THE PROPERTY OF THE PROPER				**************************************	Populari pradipate i pratipate										
TELEMETRY (con: PAM/FM/FM Real Time Link	four community of the four community of the	tinuous riminated dressed p channels	hannels to cutput of cutpu	of this line (ispla)	chan ident ed in	ired. The Shel must be ification and real time of the sheet with	fed to i dela n osci	appro y line llose	priate com erase mon pe(s). Th	men itc e 7	d equipment oring. The 'O-kc contin	outp	le 7. uts c	35-ko l'bo	conti h the ontair	inuous cha 52.5 kc a s vehicle	unnel pro-
СОММАХО	generat					Time correl											Item 2,
CAOL YKR																	A CONTRACTOR OF STREET
OTHER																	
															ATTAC	t: 1. FORMAT 2. FLOW CH	
SD JAN 82 85					2					1.	SECURITY CLAS	SIFICA	TION		•	. REVISION N	· .



		generalities and a second seco	DATA DI	ISTRI	BUTI	ON	y,	<u></u>	(		1.	SECURITY CLASSIFICATION	2. PAGE 920 3. DATE 1 June 1965
S, P	ROGRAM	TITLE FROGRAM 206	,		6.	PROGR	RAM REQUIREMENT	7. SYSTEM CODE 75664014			Aer	contractor/contract number ospace Cord./AF 04(695)-469	4. REPLACES PAGE(S) ORIGINAL DATE:
10. ITEM NO.	11. TEST CODE	12. DATA OUTPUT			ORIG.		FINAL R	ECIPIENT	16. TIME REQ'D.	17.	RED		
2		All Listings Generated by CDC 1604 Computer  a. On-Line (During Operations)  b. Off-Line (During Operations)  c. Best-Fit Ephemeris  Processed Telemetry Data	NOME			14 14 14	STC Aerospac Advisor Offi Same as abov	ice <i>r</i> e	See Remar " 24 h after fligh See Remar	ks	THE CONTRACTOR OF THE CONTRACT	Note: Pages 920, 920.3 gi Advisor Staff requirements 6594th ATW data requirement 6594th ATW data requirement 6594th ATW data requirement 6594th ATW data requirement 6594th ATW data requirement 6594th ATW data requirement 6594th ATW data requirements 6594th ATW data requirements 6594th ATW data requirements 6505 or "Data of State of State 6506 or "Data of State 6506	and do not include this. See Section D-6 ther information. For ion from Aerospace to a Handling & Distrithis plan includes for computer listings. If you will be made available as soon as a configuration: the ce readout from two time, and post passed points (determined of five commutated five required.  In the formats as 1,12, and 13 as used
												b. Telemetry points s only by the link-channel-p	
SSD	FORM JAN 62	87			1							SECURITY CLASSIFICATION	9. REVISION NO.
				A	ppro	ove	d for Release	e: 2024/01/ <u>3</u>	C050	99	025	5	-

								1. SEC	URITY CLASSIFICATION	2. PAGE 920.1
	DATA DIS	TRIBII	TION				- 1		-	3. DATE 1 June 1965
	DATA DIS	TK (DO								4. REPLACES PAGE(S)
5. PROGRAM TITLE				RAM REQUIREMENT	7. SYSTEM CODE				TRACTOR/CONTRACT NUMBER	ORIGINAL
PROGRAM 206			HO.	NONE	75664014			eros	pace Corp/AF 04(695)-469	DATES
D. 11. 12. TEM TEST DATA OUTPUT NO. CODE	13. REFERENC PAGE ITE	M OBIG	QTY . CYS	15. F≀NAL F	RECIPIENT	16. TIME REQ'D.	17. ≱ G⊞	РНОТО	DESIRED DATA PRESENTA	TION & REMARKS
2 (Continued)	NUMBER						2 2	1	c. All points shall be of band width.	reported in percent
								CARROTTION CONTRACTOR	d. Out of band, high ( low (OBL) data shall be i shall be printed, not sup	dentified; noisy data
									e. A minimum amount of reporting shall be used or requirement to restrict to one printer. Where evis used the only different fixed format shall be a reampling rate and use of tabulation.	consistent with the elemetry data reports ent format reporting are between it and reduction in the
			CHAPTER OF THE PROPERTY OF THE				AND THE RESERVE OF THE PROPERTY OF THE PROPERT		f. Event format report only for steady state qua- outs shall be in percent identified as to link-cha- Event printout intervals 5 seconds. Fixed format priority over event format	ntities; event print- of band width and mnel-pin assignment. should be approximate points should have
Magnetic tape recording of telemetry data recorduring all passes at al stations.	led	1	1	STC Aerospa Advisor Off:		See Remar	ks		The STC Aerospace Technic transfer originals to Aer El Segundo, California fo Copies will be forwarded Philadelphia, through the	ospace Corporation, or permanent retention to General Electric C
									It is noted that copying Sunnyvale, California are produce the copies. The minimum consistent with a ferring records from outlestations.	ea may be required to time required will be capabilities for trans
				1			一十	1. SE	CURITY CLASSIFICATION	9. REVISION NO.
SD JAN 62 87							1			1
0					000464		1	٠		1
		Apı	prove	ed for Releas	se: 2024/01/3	<u>30 CU</u> 50	)99(	J25		

	DATA DISTRIBUTIO	1	1. SECURITY CLASSIFICATION	2. PAGE 920,2  3. DATE 1 June 196  4. REPLACES PAGE(5)
. PROGRAM TITLE PROGRAM 206		O. NONE 75664014	8. CONTRAC CONTRACT NUMBER Aerospace Corp/AF 04(695)-469	ORIGINAL
EM TEST DATA OUTPUT	FAGE ITEM ORIG. ON ORIGINAL OR	FINAL RECIPIENT	ME DESIRED DATA PRESENT	
Magnetic tape recordings of telemetry data recorded during passes 8 and 16 at VIS.	1	Aerospace Technical Advisor Advisor at VAFE	be released to the Aerospa at VAFB within one (1) hou of VTS. This requirement manner for each day of orb	ce Technical Adviso r after vehicle fad repeats in a Mimila it life.
Magnetic tape recordings as described on Page 630.		STU Aerospace Technical Mon Advisor Office Man	The STC Aerospace Technica transfer these \( \Delta \) recording California, unless the \( \Delta \) the same tape as Program 2 a copy of the \( \Delta \) recording to IMSC.	gs to LMSC,Sunnyval data is recorded on 06 data: in that ca
Computer Magnetic Tapes  a. Reset	-	af	hr Reset tapes containing rester ephemeris computation. Ot special request.	ults of best-fit her resets upon
b. HISTREVE	-	af	hr ter ight	;
Analog Records  a. Oscillograms of telemetry data obtained at STC or tracking stations.	1	Same as above See Rem	Special request only	
b. Pen records showing equipment performan at tracking stations	e <b>d</b>	Same as above 24 aft		ected telemetry.
D FORM 87			1. SECURITY CLASSIFICATION	9. REVISION NO.

			DATA	DISTR				7. SISTEM CODE				CURITY CLASSIFICATION	2. PAGE 920.3 3. DATE 1 June 1965 4. REPLACES PAGE(S) ORIGINAL
5, 11	GRAM	PROGRAM 206			6.	PROGE NO	PAM REQUIREMENT	7566401	1;			space Unitp./AF 04(695)-469	OATED
ITEM	II. IEST CODE	12. DATA OUTPUT	13. REFER PAGE NUMPER	ENGE ITEM RO.	14. O'		15.	ECIPIENT	TIME	17. ≱ (. ≰ (. ⊈ (.	0	DESIRED DATA PRESENTA	TION & REMARKS
8		Raw Tracking Data (Punched paper tape or equivalent under augmentation system)			1		STC Aerospa Advisor Off	ce Technical ice	See Remar			Special Request Only	
9		Teletype Messages relative to operations such as station status, performance summaries, time correlation etc.				3	STC Aerospa Advisor Off	ce Technical	When trans mitter				
													9. REVISION NO.
SSD .	FORM IAN 62	87		<u></u>		***					1. 5	ECURITY CLASSIFICATION	3. REVISION NO.

			CONTRACTOR AS	SIGNED	FACILITIES				1. SECURITY CLASSIFICATION	2. PAGE 1010 3. OATE 1 June 1965 4. REPLACES PAGE(S)
8. PRO	RAM TITL			6.	PROGRAM REQ	UIREMENT		STEM CODE	8. CONTRACTOR/CONTRACT NUMBER	ORIGINAL
		PROGRAM			NO. NONE			75664014	Aerospace Corp./AF 04(695)-	469/DATED
ITEM NO.	TEST CODE	12, LEAD- TIME, MONTHS	13. TYPE OF FACILITY	14. QTY	15. USEABLE AREA SQ. FT. (EACH)	16. LOCAT	ION	17.	PURPOSE	
1		6	Office	1	600	STC, Sunny	vale		ccupied by permanently assign rsonnel involved in the Techn	
2	The state of the s	1	Report Writing Room	1	600	STC, Sunny	vale	Aerospace Corpo	be used for data analysis an oration and Associate Contrac ek following an operation.	
3			Technical Advisor Room	1	600	STC, Sunny	rale	functions during equipment:  CDC 166 Li TV Monitor Teletype M Time Displ Voice Line Secure Tel Administra Computatic Furniture  Note: The usea for init	Monitors Lays Speakers	all require the follow- tation is introduced)  rospace Corporation)  is considered a minimum ment could be satisfie
SSD JEOR	¥ 88							Director	rooms.	), REVISION NO.

	CONTRACTOR OPERATIONS PERSONNEL SCHEDULE  PROGRAM TITLE    6. PROGRAM REQUIREMENT   7. SYSTEM CODE											1.	1. SECURITY CLASSIFICATION						3.	2. PAGE 1030 3. DATE 1 June 1965 4. REPLACES PAGE(S)												
5. PROGRAM TITLE	· · · · · · · · · · · · · · · · · · ·					6.	PROG			EMENT		7. S	YSTEM	CODE	- 1						R/COM						ORIGINAL					
PRO	GRAM 206	171		-	12.	ᆚ		NOI	IE .				750	6640										04 (	695)	-469	9] 0	ATED				
10.		ē	OPERATIONS	-	12	FY.			_			FY	,		EIW	OHK	PERS	ONN	EL,N	FY		IAHI	ER						Υ			,
STATION	PERSONNEL		5	<u> </u>	<b>-</b>			CY_	L				T			<del>-</del> c	<u> </u>								<del>-</del>				ř=	CY	·	
LOCATION	(CONTRACTOR/FUNCTION)	ž		Z I		IST		ND	36	RD	T	тн	1	ST	2	ND	4	RD	4	TH	١,	ST	2	ND.	_	RD	T 4	тн	1	ST	<del></del>	4 D
		NS.	9	- 5	Δ.	В	A	8	A	В	A	В		В	A	В	A	В	A	<del></del>	A	В	A	В	A	9	A	-	A	В	A	В
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L. C. Lidstrom	Mgr., STC		11					
J. E. Kent	Mgr., VAFB		11					
L. Binegar	General Mgr., ASI	D	GE ASPD	P	King of Prussia, Pa.			
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TERMINOLOGY	11.		DEFINITION	OR MEANING		
MODE						
ORT	Orbital Real Time					
OREC	Orbital Record					
RY	Re-Entry (Separat	ion Phase)				
PF	Powered Flight					
SUBSYSTEM						
ENV	Environmental					
SYS	Systems, Aerophys	ics				
EPD	Electrical Power	and Distribution				
T&C	Tracking and Comm	and				
G&C	Guidance and Cont	rol				
<b>D</b> /0	Guidance and Cont	rol, Deorbit				
0/A	Guidance Control,	Orbit Adjust				
GFE	Government Furnis	hed Equipment				
RETR	Retrieval					
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TERMINOLOGY	11.			OR MEANING	
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	Deal time telem	oher data required W	hile commanding the	vehicle. Telemetry in this cate	ecory will receive
A	real time proce		mile commanding the	venicle, relaterly in this care	gory will receive
В	Telemetry data	indicating possible	off-nominal performa	ance for which corrective command	s may be generated.
***	As a minimum re	quirement this data	will be processed in	n near real time. Real time proc	essing is acceptable.
C	Telemetry data	required to provide	the basis for any re	equired redesign in the event of	off-nominal operation
C		be processed post-fl		dorrer refrestign in the event of	orr commar operation
D	Telemetry data	required to establish	h verification of ac	chieving of mission objectives an	d to provide basis fo
	state-of-art ad	vancement. This date	a Will be processed	post-rright.	
		NOTE: Any pri	ority includes all 1	lower priority requirements.	
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- FORM 88				1. SECURITY CLASSIFICATION	9. REVISION NO.
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