

20-1-64

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

CHRONOLOGICAL HISTORY

FISCAL YEAR 1964

BUDGET SUBMISSION

Prepared by:
Office of Administration
Budget Operations Division
Code BT-1 EXT. 24146

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1964 Budget Submission
(In thousands of dollars)
(Summary)

I T E M	A U T H O R I Z A T I O N							A P P R O P R I A T I O N					Appropriated per P.L. _____
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 395)	Auth- orized per P.L. 88-113 (Rep. 706)	House ^{1/} Approp. Comm. Action (HR 8747) (Rep. 874)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 661)	Senate Approved	
R&D - Appropriation													
Research & Development:		7/25/63			8/2/63	5/22/63 8/9/63	9/16/63	10/11/63 10/16/63			10/27/63 11/20/63	12/10/63 House & Senate	
ONSF	2,931,800.0	-183,700.0	+163,000.0	2,911,100.0	2,748,100.0	2,898,100.0	2,817,100.0						
CA	119,300.0	- 9,925.0	+ 3,000.0	112,375.0	109,375.0	111,375.0	109,375.0						
OSS	737,900.0	- 89,200.0	+ 32,200.0	680,900.0	624,300.0	675,900.0	657,700.0						
OART	331,200.0	- 16,500.0	+ 5,000.0	319,700.0	314,700.0	319,700.0	317,200.0						
OTDA	231,500.0	- 14,800.0	+ 5,500.0	222,200.0	216,700.0	220,200.0	218,200.0						
Subtotal R&D	4,351,700.0	-314,125.0	+208,700.0	4,246,275.0	4,013,175.0	4,225,275.0	4,119,575.0	3,926,000.0	+193,575.0	4,119,575.0	4,006,000.0	3,926,000.0	3,926,000.0
Personnel	319,468.0	- 25,000.0	+ 25,000.0	319,468.0	294,468.0	314,468.0	304,468.0		304,468.0				
Oper. of Install.	240,832.0	- 27,115.0	+ 11,000.0	224,717.0	213,717.0	224,717.0	213,717.0	494,000.0	+ 24,185.0	213,717.0	494,000.0	494,000.0	494,000.0
Total R&D & AO	4,912,000.0	-366,240.0	+244,700.0	4,790,460.0	4,521,360.0	4,764,460.0	4,637,760.0	4,420,000.0	+217,760.0	4,637,760.0	4,500,000.0	4,420,000.0	4,420,000.0
CoF - Appropriation	800,000.0	-107,640.6	+ 74,025.0	766,384.4	692,359.0 ^{1/}	747,060.4	713,060.4	680,000.0	+ 33,060.4	713,060.4	690,000.0	680,000.0	680,000.0
TOTAL NASA <u>ca 3/</u>	5,712,000.0	-473,880.6	+318,725.0	5,556,844.4	5,213,719.0 ^{2/}	5,511,520.4	5,350,820.4	5,100,000.0	+250,820.4	5,350,820.4	5,190,000.0	5,100,000.0	5,100,000.0

*House Authorization Committee made a gross reduction of \$18,500,000 but added \$2,000,000 for High Energy Propellants, leaving a net reduction of \$16,500,000.

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124146
Revised: November 26, 1963

1/ \$25,000,000 for Facility Planning & Design includes \$10,000,000 reduction as amended and inadvertently not deducted from total CoF.

2/ Total NASA funds of \$5,213,719,000 will not add by \$400 due to rounding off in CoF total as passed by the House and Reclaimed by NASA in the Senate.

3/ Appropriation Committee action not reflected below Appropriation level.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1964 Budget Submission
(In thousands of dollars)

I T E M	A U T H O R I Z A T I O N							A P P R O P R I A T I O N					
	NASA Budget Submission	House Auth. Comm. Action (HR 750) (Rep. 391)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 385)	Auth- orized per P.L. 83-113 (Con. Rep. 706)	House Approp. Comm. Action (HR 8747) (Rep. 324)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropri- ated per P.L. _____
TOTAL, NASA APPROPRIATION	5,712,000	-470,000	+218,725.0	5,536,844.4	5,213,719.0	5,511,520.4	5,350,820.4	5,100,000.0	+250,820.4	5,350,820.4	5,190,000.0	5,100,000.0	5,100,000.0
Research and Development Appropriation													
<u>OFFICE OF MANNED SPACE FLIGHTS</u>	2,931,300	-183,700	+163,000	2,911,100	2,748,100.0	2,898,100.0	2,817,100						
Manned Spacecraft Systems	(1,556,600)	(-120,000)	(+120,000)	(1,556,600)	(1,436,600)	(1,556,600)	(1,496,600)			1,496,600			
SRAI	21,100	---	---	21,100	21,100	21,100	21,100						
Gemini	306,300	---	---	306,300	306,300	306,300	306,300						
Apollo	1,207,400	-120,000	+120,000	1,207,400	1,087,400	1,207,400	1,147,400						
Mission Control Center Oper.	21,800	---	---	21,800	21,800	21,800	21,800						
Launch Veh. & Prop. Sys.	(1,168,500)	(-30,000)	(+15,000)	(1,153,500)	(1,138,500)	(1,153,500)	(1,147,500)			1,123,500			
Launch Veh. Supporting Technology	16,900	---	---	16,900	16,900	16,900	16,900						
Propulsion supporting Technology	22,500	---	---	22,500	22,500	22,500	22,500						
Launch operations Supporting Technology	7,600	---	---	7,600	7,600	7,600	7,600						
Saturn	93,800	---	---	93,800	93,800	93,800	93,800						
Saturn B	68,600	---	---	68,600	68,600	68,600	68,600						
Advanced Saturn	733,000	---	---	733,000	733,000	733,000	733,000						
M-1 Engine	45,000	-30,000	+15,000	30,000	15,000	30,000	24,000			(24,000)			
H-1 Engine	5,200	---	---	5,200	5,200	5,200	5,200						
RL-10 Engine	32,600	---	---	32,600	32,600	32,600	32,600						
F-1 Engine	54,100	---	---	54,100	54,100	54,100	54,100						
J-2 Engine	48,200	---	---	48,200	48,200	48,200	48,200						
Range instrumentation	20,000	---	---	20,000	20,000	20,000	20,000						
Range Support	21,000	---	---	21,000	21,000	21,000	21,000						
Aerospace Medicine	(16,700)	(-5,700)	---	(11,000)	(11,000)	(11,000)	(11,000)			11,000			
Experimental Studies	8,125	NA	---	NA	NA	NA	NA						
Crew systems	3,950	NA	---	NA	NA	NA	NA						
Biomedical in-flight experiments	3,125	NA	---	NA	NA	NA	NA						
Medical operations	1,500	NA	---	NA	NA	NA	NA						
Integration and Checkout	(153,000)	(-28,000)	(+28,000)	(153,000)	(125,000)	(140,000)	(125,000)			125,000			
Integration	26,000	NA	NA	26,000	NA	NA	NA						
Checkout	101,000	NA	NA	101,000	NA	NA	NA						
Reliability assessment	26,000	NA	NA	26,000	NA	NA	NA						

NA - Not Available

GPO 682-741

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 Chronological History of the FY 1964 Budget Submission
 (In thousands of dollars)

I T E M	A U T H O R I Z A T I O N							A P P R O P R I A T I O N					
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 385)	Authorized per P.L. 88113 (ConRep 706)	House Approp. Comm. Action (HR 8747) (Rep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropriated per P.L. _____
Systems Engineering	(37,000)	---	---	(37,000)	(37,000)	(37,000)	(37,000)			37,000			
Sys. Engineering and Studies	37,000	---	---	37,000	37,000	37,000	37,000						
OFFICE OF APPLICATIONS	119,300	-9,925	+3,000	112,375	109,375	111,375	109,375						
Meteorological Satellite	(63,700)	---	---	(63,700)	(63,700)	(63,700)	(63,700)			63,700			
Supporting Research & Technology	10,200	---	---	10,200	10,200	10,200	10,200						
Flight Program:	(53,500)	---	---	(53,500)	(53,500)	(53,500)	(53,500)			53,500			
Tiros	7,200	---	---	7,200	7,200	7,200	7,200						
Nimbus	43,800	---	---	43,800	43,800	43,800	43,800						
Meteorological sounding rocket system	2,500	---	---	2,500	2,500	2,500	2,500						
Communication Satellites	(51,100)	(-8,925)	(+2,000)	(44,175)	(42,175)	(44,175)	(42,175)			42,175			
SR&T:	(5,000)	(-1,925)	(+1,500)	(4,575)	(3,075)	(4,575)	(3,075)						
High gain reflective structures	200	---	---	200	200	200	200						
Adv. passive satel. studies	1,200	---	---	1,200	1,200	1,200	1,200						
Inter. altitude Satel. studies	2,000	-1,000	+1,000	2,000	1,000	2,000	1,000						
Electronically steerable antennas	100	---	---	100	100	100	100						
Isotope thermoelectric power supply studies	200	---	---	200	200	200	200						
Technical & operational studies	1,300	-925	+500	875	375	875	375						
Flight Program:	(46,100)	(-7,000)	(+500)	(39,600)	(39,100)	(39,600)	(39,100)						
Echo (rigidized sphere)	200	---	---	200	200	200	200						
Relay	1,900	---	---	1,900	1,900	1,900	1,900						
Syncom	4,000	---	---	4,000	4,000	4,000	4,000						
Advanced Syncom:	(40,000)	(-7,000)	(+500)	(33,500)	(33,000)	(33,500)	(33,000)						
Atlas-Agena launch veh. (three orbital flights & one backup)	12,500	---	---	12,500	12,500	12,500	12,500						
Spacecraft	16,640	-6,500	---	22,640	22,640	22,640	22,640						
Equipment for ground stations	4,960	---	---	4,960	4,960	4,960	4,960						
Ground Station Operation	1,000	---	---	1,000	1,000	1,000	1,000						
Reliability studies	500	-500	+500	500	---	500	---						
Switching circuits	300	---	---	300	300	300	300						
Telemetry & Command Stations	600	---	---	600	600	600	600						
Range & Range rate equipment	2,000	---	---	2,000	2,000	2,000	2,000						

Chronological History of the FY 1964 Budget Submission
(In thousands of dollars)

ITEM	AUTHORIZATION							APPROPRIATION					
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Sep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 385)	Authorized per P.L. 88-113 (On Rep 706)	House Approp. Comm. Action (HR 8747) (Sep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropriated per P.L. _____
Services and rentals	500	---	---	500	500	500	500						
Data reduction & analysis	1,000	---	---	1,000	1,000	1,000	1,000						
Administrative Applications	(1,000)	(-1,000)	(+1,000)	(1,000)	(---	(---	(---						
Satellites													
SEAT	1,000	-1,000	+1,000	1,000	---	---	---						
Industrial Applications	(3,500)	---	---	(3,500)	(3,500)	(3,500)	(3,500)						
Industrial applications	3,500	---	---	3,500	3,500	3,500	3,500						
OFFICE OF SPACE SCIENCES	737,900	-89,200	+32,200	680,900	624,300	675,900	657,700						
Geophysics and Astronomy	(194,400)	(-4,000)	(+4,000)	(194,400)	(190,400)	(194,400)	(194,400)						
SEAT	15,200	---	---	15,200	15,200	15,200	15,200						
Flight Projects:	(179,200)	(-4,000)	(+4,000)	(179,200)	(175,200)	(179,200)	(179,200)						
Explorers and monitors	20,600	---	---	20,600	20,600	20,600	20,600						
Orbital Geophysical Observatories	61,800	---	---	61,800	61,800	61,800	61,800						
Geodesy	6,200	---	---	6,200	6,200	6,200	6,200						
Orbiting Solar Observa.	17,400	---	---	17,400	17,400	17,400	17,400						
Orbiting Astronomical Observatories	52,900	---	---	52,900	52,900	52,900	52,900						
International Satellites	7,000	-4,000	+4,000	7,000	3,000	7,000	7,000						
Sounding Rockets & Geoprobes	13,300	---	---	13,300	13,300	13,300	13,300						
Lunar & Planetary Explora.	(322,600)	(-63,200)	(28,200)	(282,600)	(254,400)	(282,600)	(274,400)						
SEAT	20,000	---	---	20,000	20,000	20,000	20,000						
Flight program:													
Ranger	90,000	-25,000	---	65,000	65,000	65,000	65,000						
Surveyor:													
Lander	69,300	---	---	69,300	69,300	69,300	69,300						
Orbiter	28,200	-28,200	+28,200	28,200	---	28,200	20,000						
Mariner:													
Mariner Mars fly-by	47,000	-15,000	---	85,100	85,100	32,000	32,000						
Venus/Mars lander	53,100	---	---	53,100	53,100	53,100	53,100						
Pioneer	15,000	---	---	15,000	15,000	15,000	15,000						
Bioscience	(35,200)	(-14,000)	---	(21,200)	(21,200)	(21,200)	(21,200)						
SEAT	10,800	---	---	10,800	10,800	10,800	10,800						
Flight program	24,400	-14,000	---	21,200	21,200	21,200	21,200						
Launch Veh. Development	(130,700)	(-3,000)	---	(127,700)	(127,700)	(127,700)	(127,700)						
SEAT	5,000	-3,000	---	2,000	2,000	2,000	2,000						
Operational support	110,700	---	---	110,700	110,700	110,700	110,700						
Operational support	15,000	---	---	15,000	15,000	15,000	15,000						

TV

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1964 Budget Submission
(in thousands of dollars)

ITEM	AUTHORIZATION							APPROPRIATION					
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 385)	Authorized per P.L. 88-113 (Con Rep 706)	House Approp. Comm. Action (HR 8767) (Rep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropriated per P.L.
Facility, Train. & Res. Grants	(55,000)	---	---	(55,000)	(30,600)	(50,000)	(40,000)						
Facilities grants	18,000	---	---	18,000	NA	NA	NA						
Training grants	25,000	---	---	25,000	NA	NA	NA						
Research grants	12,000	---	---	12,000	NA	NA	NA						
OFFICE OF ADVANCED RESEARCH AND TECHNOLOGY	331,200	-16,500	+5,000	319,700	314,700	319,700	317,200						
Space Vehicle Systems	(61,962)	(-8,500)	---	(53,462)	(53,462)	(53,462)	(53,462)						
SR&T	37,762	---	---	37,762	37,762	37,762	37,762						
Flight Projects:	(24,200)	(-8,500)	---	(15,700)	(15,700)	(15,700)	(15,700)						
Scout reentry heating	1,500	---	---	1,500	1,500	1,500	1,500						
FIRE	4,000	---	---	4,000	4,000	4,000	4,000						
Advanced FIRE	8,500	-8,500	---	---	---	---	---						
Scout-launch. Mete. Sat.	950	---	---	950	950	950	950						
Saturn-launched meteoroid experiments	4,250	---	---	4,250	4,250	4,250	4,250						
Space vehicle recovery	950	---	---	950	950	950	950						
Secondary environ. exper.	550	---	---	550	550	550	550						
Small space vehicles flight experiments	3,500	---	---	3,500	3,500	3,500	3,500						
Electronic Systems	(30,362)	---	---	(30,362)	(30,362)	(30,362)	(30,362)						
SR&T	26,612	---	---	26,612	26,612	26,612	26,612						
Small Flight projects	3,750	---	---	3,750	3,750	3,750	3,750						
Human Factor Systems	(18,200)	(-5,000)	---	(13,200)	(13,200)	(13,200)	(13,200)						
SR&T	18,200	-5,000	---	13,200	13,200	13,200	13,200						
Nuclear-Electric Systems	(68,768)	---	---	(68,768)	(68,768)	(68,768)	(68,768)						
SR&T	20,018	---	---	20,018	20,018	20,018	20,018						
Development and flight projects	48,750	---	---	48,750	48,750	48,750	48,750						
Nuclear Rockets	(96,687)	(-5,000)	(+5,000)	(96,687)	(91,687)	(96,687)	(94,187)						
SR&T	22,687	---	---	22,687	22,687	22,687	22,687						
Projects:	(74,000)	(-5,000)	(+5,000)	(74,000)	(69,000)	(74,000)	(71,500)						
KIWI	1,000	---	---	1,000	NA	1,000	1,000						
NERVA	60,000	-5,000	+5,000	60,000	NA	60,000	NA						
RIFT	12,000	---	---	12,000	---	12,000	---						
KRDS	1,000	---	---	1,000	---	1,000	---						
Chemical Propulsion	(22,497)	(+2,000)	---	(24,497)	(24,497)	(24,497)	(24,497)						
SR&T:	(22,497)	(+2,000)	---	(24,497)	(24,497)	(24,497)	(24,497)						

* Amendment on the House Floor reduced Facility, Training, and Research Grants from \$55.0 million to \$30.6 million

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I T E M	A U T H O R I Z A T I O N							A P P R O P R I A T I O N					
	NASA Budget Submission	House Auth. Com. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 385)	Auth- orized per P.L. 88-113 (ConRp 706)	House Approp. Com. Action (HR 8747) (Rep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Com. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropri- ated per P.L.
Chemical Propulsion (Cont'd)													
Chemical propulsion an- alysis, aerothermochemi- stry & materials	7,525	---	---	7,525	7,525	7,525	7,525						
High-energy propellants	3,306	+2,000		5,306	5,306	5,306	5,306						
Advanced launch vehicle engine technology	4,474	---	---	4,474	4,474	4,474	4,474						
Advance spacecraft engine technology	5,618	---	---	5,618	5,618	5,618	5,618						
Experimental high-energy engine	1,574	---	---	1,574	1,574	1,574	1,574						
Space Power	(16,524)	---	---	(16,524)	(16,524)	(16,524)	(16,524)						
SR&T	16,524	---	---	16,524	16,524	16,524	16,524						
Aeronautics	(16,200)	---	---	(16,200)	(16,200)	(16,200)	(16,200)						
SR&T	9,910	---	---	9,910	9,910	9,910	9,910						
Projects	6,290	---	---	6,290	6,290	6,290	6,290						
OFFICE OF TRACKING AND RANGE ACQUISITION	231,500	-14,800	+5,500	222,200	216,700	220,200	218,200						
Tracking and Data Acquisi- tion	(231,500)	(-14,800)	(+5,500)	(222,200)	(215,700)	(220,200)	(218,200)						
SR&T	17,000	-5,000	+2,000	14,000	12,000	12,000	12,000						
Network operations	80,500	-3,500	+3,500	80,500	77,000	80,500	78,500						
Equipment & Components	124,000	-6,300	---	127,700	127,700	127,700	127,700						
TOTAL - RESEARCH AND DEVELOPMENT	4,351,700	-314,125	+208,700	4,246,275	4,013,175	4,225,275	4,119,575	3,926,000	+193,575	4,119,575	4,006,000	3,926,000	3,926,000
TOTAL - PERSONNEL Costs (AO)	319,468	-75,000	+25,000	312,468	294,468	314,468	304,468						
Operation of Installations:													
Travel & Transp. of persons	21,882	-2,000	---	19,882	19,882	19,882	19,882						
Transportation of things	7,789	-789	---	7,000	7,000	7,000	7,000						
Rents, Communications & Utilities	59,026	-2,000	---	57,026	57,026	57,026	57,026						
Printing & Reproduction	4,847	-250	---	4,597	4,597	4,597	4,597						
Other Services	31,684	-11,000	16,000	36,684	30,000	36,000	30,000						
Supplies & Materials	25,959	-3,359	+2,000	24,600	22,000	24,000	22,000						
Equipment	29,433	-6,433	+3,000	26,000	23,000	26,000	23,000						
Insurance Claims & Indem.	212	---	---	212	212	212	212						

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1964 Budget Submission
(In thousands of dollars)

I T E M	A U T H O R I Z A T I O N							A P P R O P R I A T I O N					
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Rep. 561)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 385)	Auth- orized per P.L. 88-113 (Con. Rep. 705)	House Approp. Comm. Action (HR 8247) (Rep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropri- ated per P.L. _____
TOTAL OPER. OF INSTALL.	240,832	-27,115	+11,000	224,717	213,717.0	224,717	213,717						
TOTAL NO APPROP.	560,300	-52,115	+35,000	544,185	508,185	539,185	518,185	494,000	+24,185	518,185	494,000	494,000	494,000
<u>Construction of Facilities</u>													
<u>Approp.</u>													
Area Research Center	(13,076)	(-2,032)	---	(11,044)	(11,044.0)	(11,044)	(11,044)						
T Administrative Manage- ment Bldg.	1,375	-1,375	---	---	---	---	---						
T Life science research laboratory	4,800	-240	---	4,640	4,640	4,640	4,640						
T Model construction building	347	-347	---	---	---	---	---						
T Satellite attitude con- trol systems test facility	1,230	---	---	1,230	1,230	1,230	1,230						
T Space environment re- search facility	3,600	-70	---	3,530	3,530	3,530	3,530						
T Structural dynamics laboratory	1,644	---	---	1,644	1,644	1,644	1,644						
Flight Research Center	(4,081)	(-4,081)	(+4,081)	(4,081)	(---	(1,157)	(1,157)						
T Flight research support laboratory	2,924	-2,924	+2,924	2,924	---	---	---						
T High temperature loads calibration facility	1,157	-1,157	+1,157	1,157	---	1,157	1,157						
Goddard Space Flight Center	(20,932)	(-3,899.5)	(+3,300)	(20,332.5)	(17,032.5)	(20,332.5)	(17,032.5)						
S Data interpretation laboratory	5,390	-229.5	---	5,160.5	5,160.5	5,160.5	5,160.5						
S Isolated hazardous test facility	800	-800	+800	800	---	800	---						
S Mechanical test facility and quality assurance laboratory	5,700	---	---	5,700	5,700	5,700	5,700						
S Meteorological systems development laboratory	4,103	-170	---	3,933	3,933	3,933	3,933						
S Modernization of pay- load test facility	2,500	-2,500	+2,500	2,500	---	2,500	---						
S Utility installations	2,439	-200	---	2,239	2,239	2,239	2,239						
S Jet Propulsion Laboratory Addition to the space flight operations facility	(2,000)	(-4,001.8)	(+3,900)	(6,898.2)	(2,998.2)	(2,998.2)	(2,998.2)						
	1,000	-54.8	---	945.2	945.2	945.2	945.2						

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 Chronological History of the FY 1964 Budget Submission
 (In thousands of dollars)

I T E M	A U T H O R I Z A T I O N							A P P R O P R I A T I O N					
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 285)	Auth- orized per P.L. 85-113 (On Res. 705)	House Approp. Comm. Action (HR 8747) (Rep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (S. FR 8747) (Rep. 641)	Senate Approved	Appropri- ated per P.L. _____
Launch Operations Center (Cont'd)													
Unmanned satellite opera- tions facility	1,680	---	---	1,680	1,680	1,680	1,680						
Utility installations - New Area	23,755	-117	---	23,638	23,638	23,638	23,638						
Vehicle maintenance & service facilities	1,561	-1,561	---	---	---	---	---						
Lewis Research Center	(25,835)	(-7,201)	---	(18,634)	(18,634)	(18,634)	(18,634)						
Addition to the space- craft propulsion re- search facility	3,500	-335	---	3,165	3,165	3,165	3,165						
Alteration of the space power chambers	5,665	-550	---	5,115	5,115	5,115	5,115						
Electric power equip- ment test facility	2,100	---	---	2,100	2,100	2,100	2,100						
Engineering building (Plum Brook Station)	1,710	----	---	1,710	1,710	1,710	1,710						
Propellant storage facility (Plum Brook Station)	385	---	---	385	385	385	385						
Modification of the environment research laboratory	2,002	---	---	2,002	2,002	2,002	2,002						
Propellant flow systems facility (Plum Brook Station)	1,316	-1,316	---	---	---	---	---						
Propulsion component evaluation facility	1,004	---	---	1,004	1,004	1,004	1,004						
SNAP-8 assembly & space- craft checkout build- ing	5,000	-5,000	---	---	---	---	---						
Zero gravity facility	2,653	---	---	2,653	2,653	2,653	2,653						
Manned Spacecraft Center	(37,736)	(-2,634)	---	(35,102)	(35,102)	(35,102)	(35,102)						
Additions to the mission control center	8,409	---	---	8,409	8,409	8,409	8,409						
Atmospheric re entry materials and struc- tures evaluation fac- ility	2,915	-220	---	2,695	2,695	2,695	2,695						
Center support facilities	5,162	-1,465	---	3,697	3,697	3,697	3,697						
Launch environment & antenna test facilities	7,482	-217	---	7,265	7,265	7,265	7,265						

Chronological History of the FY 1964 Budget Submission
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ITEM	AUTHORIZATION							APPROPRIATION					
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 385)	Authorized per P.L. 88-113 (Con. Res. 705)	House Approp. Comm. Action (HR 8747) (Rep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropriated per P.L.
Mission simulation & training facility	2,216	-147	---	2,069	2,069	2,069	2,069						
Project engineering fac.	2,761	---	---	2,761	2,761	2,761	2,761						
Spacecraft control technology laboratory	6,106	-278	---	5,828	5,828	5,828	5,828						
Ultra-high vacuum space chamber facility	2,685	-307	---	2,378	2,378	2,378	2,378						
Marshall Space Flight Center	(38,496)	(-9,316)	---	(28,980)	(28,980)	(28,980)	(28,980)						
Accelerated test and calibration facility	1,700	-90	---	1,610	1,610	1,610	1,610						
Acoustic model test fac.	2,000	-60	---	1,940	1,940	1,940	1,940						
Additions to the components test facilities	3,875	-200	---	3,675	3,675	3,675	3,675						
Addition to the test support shop	1,500	---	---	1,500	1,500	1,500	1,500						
Jet, jock and loading facilities	800	-209	---	591	591	591	591						
Expansion and modernization of the high pressure and propellant systems	4,000	-2,000	---	2,000	2,000	2,000	2,000						
Expansion of computation facilities	2,315	-2,315	---	---	---	---	---						
Extension to the load test annex	3,656	---	---	3,656	3,656	3,656	3,656						
Extension to the propulsion and veh. engineering laboratory	1,900	-1,900	---	---	---	---	---						
Hangar for vehicle comp.	2,800	-1,100*	---	3,500*	3,500*	3,500*	3,500*						
Hazardous operations lab.	500	-27	---	473	473	473	473						
Modernization of instrumentation and control systems in the East Area	3,500	---	---	3,500	3,500	3,500	3,500						
Modification to the veh. assembly building	1,800	---	---	---	---	---	---						
Project engineer office	2,650	---	---	2,650	2,650	2,650	2,650						
Support operations bldg.	500	-500	---	---	---	---	---						
Utility installations	5,000	-1,115	---	3,885	3,885	3,885	3,885						
Wallops Plant	(10,003)	(-1,315)	---	(8,688)	(8,688)	(8,688)	(8,688)						
Additions to prodn. fac.	6,000	-720	---	5,220	5,220	5,220	5,220						
Park & Security improve.	610	-150	---	460	460	460	460						
Road & Airstrip rehab.	700	-385	---	375	375	375	375						
Veh. Comp. Supply Bldg.	2,633	---	---	2,633	2,633	2,633	2,633						

*Projects combined by House Committee.

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Chronological History of the FY 1964 Budget Submission
(In thousands of dollars)

ITEM	AUTHORIZATION							APPROPRIATION					
	NASA Budget Submission	House Auth. Com. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Rep. 389)	Auth- orized per P.L. 87-13 (Con. Rep. 705)	House Approp. Com. Action (HR 8747) (Rep. 924)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Com. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropri- ated per P.L.
Mississippi Test Facility	(111,690)	(-18,994)	(+11,500)	(104,196)	(92,696)	(102,196)	(100,196)						
Advanced Saturn first stage (S-1C) static test facilities	35,983	-3,500	+3,500	35,983	32,483	35,983	35,983						
Advanced Saturn second stage (S-11) static test facilities	19,148	-1,500	+1,500	19,148	17,648	19,148	19,148						
Bridge for U.S. Interstate Highway No. 10	4,500	---	---	4,500	4,500	4,500	4,500						
Control center and data acquisition and handling facilities	4,613	---	---	4,613	4,613	4,613	4,613						
Electronic, instrumentation, and materials lab.	2,716	---	---	2,716	2,716	2,716	2,716						
F-1 engine sys. test stand	9,000	-4,959	+4,500	8,541	4,041	8,541	6,541						
Maintenance facilities	5,987	-3,707	+2,000	4,280	2,280	2,280	2,280						
Navigation lock	6,604	---	---	6,604	6,604	6,604	6,604						
Security control fac.	675	-675	---	---	---	---	---						
Sonic measuring fac.	1,760	---	---	1,760	1,760	1,760	1,760						
Transportation and parking facilities	7,585	-2,938	---	4,597	4,597	4,597	4,597						
Utility additions and extensions	6,559	---	---	6,559	6,559	6,559	6,559						
Warehouse addition and storage facilities	2,318	-1,382	---	936	936	936	936						
Waterways and docking facilities	4,242	-283	---	3,959	3,959	3,959	3,959						
Nuclear Rocket Development Station	(20,490)	(-4,840)	---	(15,650)	(15,650)	(15,650)	(15,650)						
Additions to engine test stand No. 1	1,700	---	---	1,700	1,700	1,700	1,700						
Additions to engine test stand No. 2	5,000	-1,500	---	3,500	3,500	3,500	3,500						
Additions to the engine maintenance, assembly, & Meassembly building	4,500	-1,340	---	3,160	3,160	3,160	3,160						
Radioactive material handling, decontamination and storage complex	4,250	---	---	4,250	4,250	4,250	4,250						
Support facilities	3,040	-2,000	---	3,040	3,040	3,040	3,040						

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1964 Budget Submission
(In thousands of dollars)

ITEM	AUTHORIZATION							APPROPRIATION					
	NASA Budget Submission	House Auth. Comm. Action (HR 7500) (Rep. 591)	NASA Reclama Action	NASA Revised Budget	House Approved	Senate Approved (Re: 385)	Authorized per P.L. 88-113 (Con. Rep. 706)	House Approp. Comm. Action (HR 8747) (Rep. 824)	NASA Reclama Action	NASA Revised Budget	Senate Approp. Comm. Approval (HR 8747) (Rep. 641)	Senate Approved	Appropriated per P.L. _____
Various Locations	(176,033)	(-27,385)	(+20,100)	(168,753)	(148,653)	(168,253)	(159,953)						
Electronics Res. Center	5,000	-1,100	+1,100	5,000	3,900	5,000	3,900						
M Facilities for F-1 engine program	-14,238	---	---	14,238	14,238	14,238	14,238						
M Facilities for M-1 engine production	-1,500	-90	---	1,410	1,410	1,410	1,410						
N Facilities for J-2 engine program	-6,900	---	---	6,900	6,900	6,900	6,900						
T Facilities for M-1 engine program	16,000	-6,000	---	10,000	10,000	10,000	10,000						
M Facilities for S-IVB stage program	-5,300	-195	---	5,105	5,105	5,105	5,105						
M Improvements to the RL-10 A-3 engine test facility	500	---	---	500	500	500	500						
Instrumentation ships	90,000	-10,000	+9,500	89,500	80,000	89,000	83,300						
M Lunar excursion module test facility	-15,000	-3,500	+3,000	14,500	11,500	14,500	14,500						
M Manned space flight data acquisition and tracking facilities	21,000	-6,500	+6,500	21,000	14,500	21,000	19,500						
OTM Telemetry station	600	---	---	600	600	600	600						
S (Miss. Station) Support facilities	(2,000)	(-2,000)	(+505)	(505)	(---	(505)	(505)						
Facility Planning and Design	(10,000)	(+15,000)	---	(25,000)	(25,000) 1/	2/(25,000)	(20,000)						
Facility Planning and Design	10,000	+15,000	---	25,000	25,000	25,000	20,000						
TOTAL - CoF APPROPRIATION	800,000.0	-107,640.6	+74,025.0	766,384.4	692,359.0	747,060.4	713,060.4	680,000.0	+33,060.4	713,060.4	690,000	680,000	680,000

2/ \$25,000.0 for Facility Planning and Design includes \$10,000.0 reduction as amended and inadvertently not deducted from total C of F.