

v Doc 61

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

CHRONOLOGICAL HISTORY

FISCAL YEAR 1963

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 1963 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				
	NASA Budget Submission	House Comm Action HR 11737 Rep No. 1674 5/16/62	House Comm Approved	House Approved 5/23/62	Senate Comm Action HR 11737 Rep No 1633 6/27/62	Senate Approved 7/11/62	Conf Comm Appd 7/26/62 Rep No 2038 P.L. 87-584 8/14/62	House Comm Approved Rep No 2050 7/27/62	House Approved 8/1/62	Senate Comm Approved Rep No 1923 8/27/62	Senate Approved 8/31/62	Conf Comm Appd 9/14/62 Rep No 2376 P.L. 87-741 10/3/62
TOTAL APPROPRIATIONS:												
Research, Development and Operations.....	2,968,278	-33,316.25	2,934,961.75	2,934,961.75	-10,000	2,958,278	2,957,878	2,877,878	2,877,878	2,917,878	2,917,878	2,897,878
Construction of Facilities.....	818,998	-82,797.75	736,200.25	736,200.25	-27,760.75	791,237.25	786,237.25	766,237	766,237	786,237	786,237	776,237
GRAND TOTAL.....	3,787,276	-116,114	3,671,162	3,671,162	-37,760.75	3,749,515.25	3,744,115.25	3,644,115	3,644,115	3,704,115	3,704,115	3,674,115
RD&O Appropriation:												
Mercury.....	13,259	-1,000	12,259	12,259	---	13,259	13,259					
Advanced manned space flight.....	863,628	---	863,628	863,628	---	863,628	863,628					
Saturn C-1.....	249,237	---	249,237	249,237	---	249,237	249,237					
Advanced Saturn.....	335,172	---	335,172	335,172	---	335,172	335,172					
Nova.....	163,574	---	163,574	163,574	---	163,574	163,574					
Meteorological satellites systems...	51,185	---	51,185	51,185	---	51,185	51,185					
Communications sats....	85,377	---	85,377	85,377	---	85,377	85,377					
Sounding rockets.....	19,157	---	19,157	19,157	---	19,157	19,157					
Scientific sats.....	175,165	-8,758.25	166,406.75	166,406.75	---	175,165	175,165					
Lunar and planetary explor.....	273,560	-23,558 ^{1/}	250,002	250,002	-10,000	263,560	263,160 ^{1/}					
Scout.....	8,947	---	8,947	8,947	---	8,947	8,947					
Delta.....	268	---	268	268	---	268	268					
Centaur.....	66,664	---	66,664	66,664	---	66,664	66,664					
Spacecraft technology..	54,084	---	54,084	54,084	---	54,084	54,084					
Launch vehicle tech....	31,690	---	31,690	31,690	---	31,690	31,690					
Launch operations dev..	21,486	---	21,486	21,486	---	21,486	21,486					
Electric propulsion....	30,647	---	30,647	30,647	---	30,647	30,647					
Liquid propulsion.....	163,102	---	163,102	163,102	---	163,102	163,102					
Solid propulsion.....	7,944	---	7,944	7,944	---	7,944	7,944					
Space power technology..	20,172	---	20,172	20,172	---	20,172	20,172					
Nuclear systems tech...	122,962	---	122,962	122,962	---	122,962	122,962					
Aircraft & missile tech.....	52,588	---	52,588	52,588	---	52,588	52,588					
Tracking & data acq....	158,410	---	158,410	158,410	---	158,410	158,410					
TOTAL RD&O.....	2,968,278	-33,316.25	2,934,961.75	2,934,961.75	-10,000	2,958,278	2,957,878	2,877,878	2,877,878	2,917,878	2,917,878	2,897,878

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1963 Budget Submission
(In thousands of dollars)

SUMMARY

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CoF Appropriation:												
Ames Research Center....	14,439	---	14,439	14,439	---	14,439	14,439					
Atlantic Missile Range..	359,963	-63,630	296,333	296,333	-28,630 ^{3/}	331,333 ^{3/}	328,333 ^{3/}					
Flight Research Center...	1,807	---	1,807	1,807	---	1,807	1,807					
Goddard Space Flt Ctr...	23,780	-33.75	23,746.25	23,746.25	-33.75	23,746.25	23,746.25					
Jet Propulsion Lab.....	10,360	-13	10,347	10,347	-13	10,347	10,347					
Langley Research Ctr....	8,092	-11	8,081	8,081	-11	8,081	8,081					
Lewis Research Center...	43,833	---	43,833	43,833	+1,000 ^{4/}	44,833	44,833					
Manned Spacecraft Ctr...	30,755	---	30,755	30,755	---	30,755	30,755					
Marshall Space Flt Ctr..	33,437	-5.5	33,431.50	33,431.5	-5.5	33,431.5	33,431.5					
Michoud Plant.....	18,400	---	18,400	18,400	---	18,400	18,400					
Mississippi Test Fac....	92,500	-11,500	81,000	81,000 ^{2/}	---	92,500	92,500					
Nuclear Rocket Dev Sta..	40,000	---	40,000	40,000	---	40,000	40,000					
Wallops Station.....	4,300	-14.25	4,285.75	4,285.75	-14.25	4,285.75	4,285.75					
Various Locations.....	127,332	-2,590.25	124,741.75	124,741.75	-53.25	127,278.75	127,278.75					
Facility Plan'g & Design	10,000	-5,000	5,000	5,000	---	10,000	8,000					
TOTAL CoF.....	818,998	-82,797.75	736,200.25	736,200.25	27,760.75	791,237.25	786,237.25	766,237	766,237	786,237	786,237	776,237

GPO 911-408

- 1/ Eliminates Propsector.
- 2/ Includes \$500 thousand for high energy fuels facility.
- 3/ Includes \$32.0 million for land acquisition requested subsequent to House action.
- 4/ Increase for a high energy fuel facility.

Prepared by: BF-1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1963 Budget Submission
(In thousands of dollars)

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RD&O APPROPRIATION:	2,968,278	-33,316.25	2,934,961.75	2,934,961.75	-10,000	2,958,278	2,957,878 ^{1/}	2,877,878	2,877,878	2,917,878	2,917,878	2,897,878
Mercury.....	(13,259)	(-1,000)	(12,259)	(12,259)	(---	(13,259)	(13,259)					
Capsules, equipment and services.....	7,569	*	*	*	---	7,569	7,569					
Flight operations.....	2,490	*	*	*	---	2,490	2,490					
Recovery operations.....	3,200	*	*	*	---	3,200	3,200					
Advanced Manned Space Flt.	(863,628)	(---	(863,628)	(863,628)	(---	(863,628)	(863,628)					
Manned spacecraft tech..	11,764	---	11,764	11,764	---	11,764	11,764					
Mission analyses.....	480	---	480	480	---	480	480					
Sys develop & analyses	6,120	---	6,120	6,120	---	6,120	6,120					
Mission sim & training	2,235	---	2,235	2,235	---	2,235	2,235					
Operational methods and systems.....	2,929	---	2,929	2,929	---	2,929	2,929					
Aerospace medicine.....	19,320	---	19,320	19,320	---	19,320	19,320					
Acceleration and weightlessness effects.....	6,275	---	6,275	6,275	---	6,275	6,275					
Radiation protection..	5,410	---	5,410	5,410	---	5,410	5,410					
Life support systems..	4,780	---	4,780	4,780	---	4,780	4,780					
Crew medical selection and monitoring.....	2,855	---	2,855	2,855	---	2,855	2,855					
Flight program.....	832,544	---	832,544	832,544	---	832,544	832,544					
Manned one day mission	12,180	---	12,180	12,180	---	12,180	12,180					
Gemini.....	203,200	---	203,200	203,200	---	203,200	203,200					
Apollo.....	617,164	---	617,164	617,164	---	617,164	617,164					
Saturn C-1.....	(249,237)	(---	(249,237)	(249,237)	(---	(249,237)	(249,237)					
Vehicle development.....	155,533	---	155,533	155,533	---	155,533	155,533					
Engine development.....	36,743	---	36,743	36,743	---	36,743	36,743					
System support.....	56,961	---	56,961	56,961	---	56,961	56,961					
Advanced Saturn.....	(335,172)	(---	(335,172)	(335,172)	(---	(335,172)	(335,172)					
Vehicle development.....	273,042	---	273,042	273,042	---	273,042	273,042					
Engine flight hardware..	28,995	---	28,995	28,995	---	28,995	28,995					
System support.....	33,135	---	33,135	33,135	---	33,135	33,135					
Nova.....	(163,574)	(---	(163,574)	(163,574)	(---	(163,574)	(163,574)					
Vehicle development.....	131,916	---	131,916	131,916	---	131,916	131,916					
Engine procurement.....	3,165	---	3,165	3,165	---	3,165	3,165					
Systems support.....	28,493	---	28,493	28,493	---	28,493	28,493					

^{1/} Authorized in total for RD&O; program and project amounts have been extrapolated.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Chronological History of the FY 1963 Budget Submission
(In thousands of dollars)

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	NASA Budget Submission	House Comm Action HR 11737 Rep No 1674 5/16/62	House Comm Approved	House Approved	Senate Comm Action HR 11737 Rep No 1633 8/27/62	Senate Approved	Conf Comm Appd 7/26/62 Rep No 2038 P.L. 87-584 8/14/62	House Comm Approved Rep No 2050 7/27/62	House Approved 8/1/62	Senate Comm Approved Rep No 1923 8/27/62	Senate Approved 8/31/62	Conf Comm Appd 9/14/62 Rep No 2376 P.L. 87-741 10/3/62
Meteorological Satellites												
Systems.....	(51,185)	(---)	(51,185)	(51,185)	(---)	(51,185)	(51,185)					
Advanced research.....	1,808	---	1,808	1,808	---	1,808	1,808					
Advanced tech devel.....	9,605	---	9,605	9,605	---	9,605	9,605					
Flight program.....	39,772	---	39,772	39,772	---	39,772	39,772					
Communications Satellites												
Systems.....	(85,377)	(---)	(85,377)	(85,377)	(---)	(85,377)	(85,377)					
Advanced research.....	2,688	---	2,688	2,688	---	2,688	2,688					
Advanced tech develop...	2,473	---	2,473	2,473	---	2,473	2,473					
Flight program.....	80,216	---	80,216	80,216	---	80,216	80,216					
Sounding Rockets.....	(19,157)	(---)	(19,157)	(19,157)	(---)	(19,157)	(19,157)					
Advanced research.....	784	---	784	784	---	784	784					
Advanced tech develop...	1,685	---	1,685	1,685	---	1,685	1,685					
Flight program.....	16,688	---	16,688	16,688	---	16,688	16,688					
Scientific Satellites.....	(175,165)	(-8,758.25)	(166,406.75)	(166,406.75)	(---)	(175,165)	(175,165)					
Advanced research.....	17,418	*	*	*	---	17,418	17,418					
Advanced tech develop...	16,261	*	*	*	---	16,261	16,261					
Flight program.....	141,486	*	*	*	---	141,486	141,486					
Lunar and Planetary Explor	(273,560)	(-23,558) ^{1/}	(250,002) ^{1/}	(250,002)	(-10,000)	(263,530)	(263,160)					
Advanced research.....	15,000	*	*	*	*	15,000	15,000					
Advanced tech develop...	17,000	*	*	*	*	17,000	17,000					
Flight Program:												
Lunar programs.....	151,800	*	*	*	*	141,800	141,400					
Planetary and interplanetary prog.	89,760	*	*	*	*	89,760	89,760					
Scout.....	(8,947)	(---)	(8,947)	(8,947)	(---)	(8,947)	(8,947)					
Vehicle development.....	3,297	---	3,297	3,297	---	3,297	3,297					
Motor development.....	4,000	---	4,000	4,000	---	4,000	4,000					
System support.....	1,650	---	1,650	1,650	---	1,650	1,650					
Delta.....	(268)	(---)	(268)	(268)	(---)	(268)	(268)					
Vehicle development.....	268	---	268	268	---	268	268					
Engine development.....	---	---	---	---	---	---	---					
System support.....	---	---	---	---	---	---	---					
Centaur.....	(66,664)	(---)	(66,664)	(66,664)	(---)	(66,664)	(66,664)					
Vehicle development.....	46,960	---	46,960	46,960	---	46,960	46,960					
Engine development.....	11,140	---	11,140	11,140	---	11,140	11,140					
System support.....	8,564	---	8,564	8,564	---	8,564	8,564					

GPO 911-408

^{1/} Prospector eliminated and 5% reduction applied.

Prepared by: BT-1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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Spacecraft Technology....	(54,084)	(---)	(54,084)	(54,084)	(---)	(54,084)	(54,084)					
Advanced research and tech.....	30,894	---	30,894	30,894	---	30,894	30,894					
Flight programs.....	23,190	---	23,190	23,190	---	23,190	23,190					
Launch Vehicle Tech.....	(31,690)	(---)	(31,690)	(31,690)	(---)	(31,690)	(31,690)					
Advanced system studies	7,452	---	7,452	7,452	---	7,452	7,452					
Vehicle technology....	24,238	---	24,238	24,238	---	24,238	24,238					
Launch Operations Develop	(21,486)	(---)	(21,486)	(21,486)	(---)	(21,486)	(21,486)					
Launch operations studies.....	2,901	---	2,901	2,901	---	2,901	2,901					
Advanced instrum.....	322	---	322	322	---	322	322					
Range support oper.....	18,263	---	18,263	18,263	---	18,263	18,263					
Electric Propulsion.....	(30,647)	(---)	(30,647)	(30,647)	(---)	(30,647)	(30,647)					
Advanced research.....	12,198	---	12,198	12,198	---	12,198	12,198					
Advanced tech. develop.	10,725	---	10,725	10,725	---	10,725	10,725					
Flight programs.....	7,724	---	7,724	7,724	---	7,724	7,724					
Liquid Propulsion.....	(163,102)	(---)	(163,102)	(163,102)	(---)	(163,102)	(163,102)					
F-1 Engine.....	55,316	---	55,316	55,316	---	55,316	55,316					
J-2 Engine.....	38,732	---	38,732	38,732	---	38,732	38,732					
M-1 Engine.....	55,316	---	55,316	55,316	---	55,316	55,316					
Anal. and experimental systems and comp dev.	13,738	---	13,738	13,738	---	13,738	13,738					
Solid Propulsion.....	(7,944)	(---)	(7,944)	(7,944)	(---)	(7,944)	(7,944)					
Systems and comp dev...	7,944	---	7,944	7,944	---	7,944	7,944					
Space Power Technology...	(20,172)	(---)	(20,172)	(20,172)	(---)	(20,172)	(20,172)					
Advanced research.....	6,934	---	6,934	6,934	---	6,934	6,934					
Advanced tech develop...	13,238	---	13,238	13,238	---	13,238	13,238					
Nuclear Systems Tech.....	(122,962)	(---)	(122,962)	(122,962)	(---)	(122,962)	(122,962)					
Advanced research.....	15,327	---	15,327	15,327	---	15,327	15,327					
Advanced tech develop...	73,690	---	73,690	73,690	---	73,690	73,690					
Flight programs.....	33,945	---	33,945	33,945	---	33,945	33,945					
Aircraft and Missile Tech	(52,588)	(---)	(52,588)	(52,588)	(---)	(52,588)	(52,588)					
Advanced research.....	30,000	---	30,000	30,000	---	30,000	30,000					
Advanced tech develop...	9,500	---	9,500	9,500	---	9,500	9,500					
Flight programs.....	13,088	---	13,088	13,088	---	13,088	13,088					

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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Tracking and Data												
Acquisition.....	(158,410)	---	(158,410)	(158,410)	---	(158,410)	(158,410)					
Systems development....	15,950	---	15,950	15,950	---	15,950	15,950					
Network operations.....	67,815	---	67,815	67,815	---	67,815	67,815					
Equipment and components.....	74,645	---	74,645	74,645	---	74,645	74,645					

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CONSTRUCTION OF FACILITIES APPROPRIATION:	818,998	-82,797.75	736,200.25	736,200.25	-27,760.75	791,237.25	786,237.25	766,237	766,237	786,237	786,237	776,237
AMES RESEARCH CENTER.....	(14,439)	(---)	(14,439)	(14,439)	(---)	(14,439)	(14,439)					
Bioscience laboratory..	924	---	924	924	---	924	924					
Mach number 50 helium tunnel.....	1,500	---	1,500	1,500	---	1,500	1,500					
Radiative heat system for mass transfer facility.....	2,225	---	2,225	2,225	---	2,225	2,225					
Space flight guidance research facility....	9,790	---	9,790	9,790	---	9,790	9,790					
ATLANTIC MISSILE RANGE...	(359,963)	(-63,630)	(296,333)	(296,333)	(-28,630) ^{1/}	(331,333) ^{1/}	(328,333) ^{1/}					
EXISTING AREA.....												
Modifications to Saturn launch complex No 34.	3,765	---	3,765	3,765	---	3,765	3,765					
Modifications to Saturn launch complex No 37.	1,150	---	1,150	1,150	---	1,150	1,150					
Modifications to provide a launch complex for solid suborbital vehicles..	1,717	---	1,717	1,717	---	1,717	1,717					
Supporting facilities..	3,000	---	3,000	3,000	---	3,000	3,000					
Addition to assembly facility for unmanned spacecraft.....	2,000	---	2,000	2,000	---	2,000	2,000					
Explosive safe assembly facilities for un-manned spacecraft....	450	---	450	450	---	450	450					
Apollo mission support facilities.....	22,510	---	22,510	22,510	---	22,510	22,510					
Modifications to Titan II launch complex....	2,400	---	2,400	2,400	---	2,400	2,400					
Utility installations..	800	---	800	800	---	800	800					

GPO 9-11-408

1/ Includes \$32.0 million authorized for AMR land acquisition - requested subsequent to House action.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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NEW AREA												
Advanced Saturn launch complex No 39.....	176,550	-3,000	173,550	173,550	---	176,550	173,550					
Advanced Saturn-Nova supporting facilities	39,121	---	39,121	39,121	---	39,121	39,121					
Apollo static test facility.....	5,000	---	5,000	5,000	---	5,000	5,000					
Nova launch complex....	79,500 ^{1/}	-60,630	18,870	18,870	-60,630	18,870	18,870					
Utility installations..	22,000	---	22,000	22,000	---	22,000	22,000					
Land acquisition.....	---	---	---	---	+32,000 ^{2/}	32,000 ^{2/}	32,000					
FLIGHT RESEARCH CENTER ...	(1,807)	(---)	(1,807)	(1,807)	(---)	(1,807)	(1,807)					
Building additions....	1,332	---	1,332	1,332	---	1,332	1,332					
Visual flight simulator	475	---	475	475	---	475	475					
GODDARD SPACE FLIGHT CENTER	(23,780)	(-33.75)	(23,746.25)	(23,746.25)	(-33.75)	(23,746.25)	(23,746.25)					
Applied sciences laboratory.....	3,175	---	3,175	3,175	---	3,175	3,175					
Attitude control test facility.....	915	---	915	915	---	915	915					
Conversion of dynamic test chamber.....	3,250	---	3,250	3,250	---	3,250	3,250					
Development operations building.....	1,850	---	1,850	1,850	---	1,850	1,850					
Launch phase simulator.	3,915	---	3,915	3,915	---	3,915	3,915					
Spacecraft operations facility.....	7,500	-20	7,480	7,480	-20	7,480	7,480					
Tracking and telemetry laboratory.....	3,175	-13.75	3,161.25	3,161.25	-13.75	3,161.25	3,161.25					
JET PROPULSION LABORATORY	(10,360)	(-13)	(10,347)	(10,347)	(-13)	(10,347)	(10,347)					
Addition to fabrication services building....	605	---	605	605	---	605	605					
Data operations and command facility....	2,420	-6.25	2,413.75	2,413.75	-6.25	2,413.75	2,413.75					
Engineering mechanics building.....	3,045	---	3,045	3,045	---	3,045	3,045					
Additions to materials research laboratories	610	---	610	610	---	610	610					
Telecommunications lab.	2,860	-6.75	2,853.25	2,853.25	-6.75	2,853.25	2,853.25					
Utility installations..	820	---	820	820	---	820	820					

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1/ Request changed to \$47.5 million subsequent to House action.
2/ Requested subsequent to House action.

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LANGLEY RESEARCH CENTER..	(8,092)	(-11)	(8,081)	(8,081)	(-11)	(8,081)	(8,081)					
Addition to heating plant.....	858	---	858	858	---	858	858					
Additional equipment for magnetoplasmady- namics research.....	1,450	---	1,450	1,450	---	1,450	1,450					
Additional power supply and improved arc chamber for 10- megawatt arc tunnel..	760	---	760	760	---	760	760					
Environmental research facilities for space- craft components and materials.....	997	---	997	997	---	997	997					
Particle accelerator for simulation of micrometeoroid impact	936	---	936	936	---	936	936					
Stabilization and control equipment laboratory.....	1,366	---	1,366	1,366	---	1,366	1,366					
Vehicle antenna test facility.....	1,725	-11	1,714	1,714	-11	1,714	1,714					
LEWIS RESEARCH CENTER....	(43,833)	(---)	(43,833)	(43,833)	(+1,000)	(44,833) ^{1/}	(44,833)					
Development engineering building.....	4,650	---	4,650	4,650	---	4,650	4,650					
Hydrogen heat transfer facility.....	2,400	---	2,400	2,400	---	2,400	2,400					
Lunar propulsion re- search facility.....	6,275	---	6,275	6,275	---	6,275	6,275					
Modernization and re- conditioning of Plum Brook service facilities.....	1,508	---	1,508	1,508	---	1,508	1,508					
Nuclear rocket dynamics and control facility.	3,500	---	3,500	3,500	---	3,500	3,500					
Space propulsion facility.....	25,500	---	25,500	25,500	---	25,500	25,500					
High energy fuel facility.....	---	---	---	---	+1,000	1,000	1,000					
MANNED SPACECRAFT CENTER	(30,755)	(---)	(30,755)	(30,755)	(---)	(30,755)	(30,755)					
Flight acceleration facility.....	10,630	---	10,630	10,630	---	10,630	10,630					
Thermochemical test facilities.....	6,000	---	6,000	6,000	---	6,000	6,000					

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^{1/} Includes \$1 million for high energy fuel facility.

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Lunar landing simulation facility.....	6,500	---	6,500	6,500	---	6,500	6,500					
Site development and utility installations.	7,625	---	7,625	7,625	---	7,625	7,625					
MARSHALL SPACE FLIGHT CENTER.....	(33,437)	(-5.5)	(33,431.50)	(33,431.50)	(-5.50)	(33,431.50)	(33,431.50)					
Addition to computation division building....	1,255	-5.5	1,249.50	1,249.50	-5.50	1,249.50	1,249.50					
Components test facility	4,000	---	4,000	4,000	---	4,000	4,000					
Components and sub-assembly acceptance building.....	950	---	950	950	---	950	950					
Engineering and administration building....	2,500	---	2,500	2,500	---	2,500	2,500					
Expansion of instrumentation systems in West Area.....	4,000	---	4,000	4,000	---	4,000	4,000					
F-1 engine test stand...	4,500	---	4,500	4,500	---	4,500	4,500					
Hydraulic test facility.	340	---	340	340	---	340	340					
Low temperature facility	575	---	575	575	---	575	575					
Modification of West side of static test stand.....	2,000	---	2,000	2,000	---	2,000	2,000					
Engineering building....	1,000	---	1,000	1,000	---	1,000	1,000					
Instrument laboratory...	2,000	---	2,000	2,000	---	2,000	2,000					
Support facilities in West Area.....	7,800	---	7,800	7,800	---	7,800	7,800					
Utility installations...	2,517	---	2,517	2,517	---	2,517	2,517					
MICHOUD PLANT.....	(18,400)	(---)	(18,400)	(18,400)	(---)	(18,400)	(18,400)					
Modifications to Michoud Plant.....	11,400	---	11,400	11,400	---	11,400	11,400					
High pressure test facility.....	1,000	---	1,000	1,000	---	1,000	1,000					
Hydrostatic test and cleaning facility....	3,000	---	3,000	3,000	---	3,000	3,000					
Vertical assembly building.....	3,000	---	3,000	3,000	---	3,000	3,000					
MISSISSIPPI TEST FACILITY.	(92,500)	(-11,500)	(81,000)	(81,000)^{1/}	(---)	(92,500)	(92,500)					
Advanced Saturn stage test facilities.....	36,000	---	36,000	36,000	---	36,000	36,000					
Nova stage facilities...	43,000	-11,500	31,500	31,000	---	43,000	43,000					
Utility installations and support facilities	13,500	---	13,500	13,500	---	13,500	13,500					
High energy fuel fac.....	---	---	---	500 ^{1/}	---	---	---					

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1/ Includes \$500 thousand for high energy fuel facility.

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NUCLEAR ROCKET DEVELOPMENT												
STATION.....	(40,000)	(---)	(40,000)	(40,000)	(---)	(40,000)	(40,000)					
Stage static test and maintenance facilities	20,205	---	20,205	20,205	---	20,205	20,205					
Stage demating, main- tenance, and dis- assembly facilities...	8,660	---	8,660	8,660	---	8,660	8,660					
Radiation effects facility.....	7,125	---	7,125	7,125	---	7,125	7,125					
Components test facilities.....	1,885	---	1,885	1,885	---	1,885	1,885					
Support facilities.....	2,125	---	2,125	2,125	---	2,125	2,125					
WALLOPS STATION.....	(4,300)	(-14.25)	(4,285.75)	(4,285.75)	(-14.25)	(4,285.75)	(4,285.75)					
Advanced data acquisition system...	1,500	-5	1,495	1,495	-5	1,495	1,495					
Modification and ex- pansion of range control, safety, and support systems and equipment.....	2,000	-9.25	1,990.75	1,990.75	-9.25	1,990.75	1,990.75					
Vehicle checkout facilities and equipment.....	800	---	800	800	---	800	800					
VARIOUS LOCATIONS.....	(127,332)	(2,590.25)	(124,741.75)	(124,741.75)	(-53.25)	(127,278.75)	(127,278.75)					
Advanced antenna system												
Goldstone Station....	14,250	-45	14,205	14,205	-45	14,205	14,205					
Advanced Saturn dynamic test facility.....	2,100	---	2,100	2,100	---	2,100	2,100					
Antenna facility, Johannesburg station.	5,000	-298.50	4,701.50	4,701.50	---	5,000	5,000					
Antenna facility, Woomera station.....	5,000	-298.50	4,701.50	4,701.50	---	5,000	5,000					
Data acquisition facility, Rosman station.....	3,500	-8	3,492	3,492	-8	3,492	3,492					
Data acquisition facility, Far East station.....	6,000	-1,940	4,060	4,060	---	6,000	6,000					
Facilities for F-1 engine program.....	25,000	---	25,000	25,000	---	25,000	25,000					
Facilities for J-2 engine program.....	4,000	---	4,000	4,000	---	4,000	4,000					
Facilities for M-1 engine program.....	16,000	---	16,000	16,000	---	16,000	16,000					

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Manned space flight control centers.....	18,000	.25	17,999.75	17,999.75	.25	17,999.75	17,999.75					
Space radiation effects laboratory.....	12,382	---	12,382	12,382	---	12,382	12,382					
Nova stage manufacturing facilities.....	16,100	---	16,100	16,100	---	16,100	16,100					
<u>FACILITY PLANNING AND DESIGN.....</u>	(10,000)	(-5,000)	(5,000)	(5,000)	---	(10,000)	(8,000)					

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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ITEM	AUTHORIZATION					APPROPRIATION				
SUMMARY DISTRIBUTION OF FUND REQUIREMENTS - RD&O										
<u>Programs</u>	<u>R&D Program Requirements</u>	<u>Institutional Support</u>	<u>Personnel Services</u>	<u>Total</u>						
Mercury.....	3,500	4,880	4,879	13,259						
Advanced manned space flight.....	800,933	27,443	35,252	863,628						
Saturn C-1.....	170,000	33,001	46,236	249,237						
Advanced Saturn.....	314,443	10,694	10,035	335,172						
Nova.....	155,000	5,764	2,810	163,574						
Meteorological satellites systems.....	45,894	2,738	2,553	51,185						
Communications satellites	79,624	2,542	3,211	85,377						
Sounding rockets.....	13,571	2,786	2,800	19,157						
Scientific satellites....	145,532	15,424	14,209	175,165						
Lunar and planetary exploration.....	263,433	4,696	5,431	273,560						
Scout.....	4,200	2,374	2,373	8,947						
Delta.....	---	102	166	268						
Centaur.....	60,000	3,053	3,611	66,664						
Spacecraft technology....	28,828	10,725	14,531	54,084						
Launch vehicle technology.....	20,060	4,728	6,902	31,690						
Launch operations development.....	20,177	638	671	21,486						
Electric propulsion.....	21,218	3,977	5,452	30,647						
Liquid propulsion.....	147,421	6,271	9,410	163,102						
Solid propulsion.....	6,019	991	934	7,944						
Space power technology...	10,638	3,695	5,839	20,172						
Nuclear systems technology.....	103,028	7,354	12,580	122,962						
Aircraft and missile technology.....	4,905	20,731	26,952	52,588						
Tracking and data acquisition.....	121,871	19,060	17,479	158,410						
TOTALS.....	2,540,295	193,667	234,316	2,968,278						