COPY NO. 70

NASA - Manned Spacecraft Center Houston, Texas October 26, 1962

## MEMORANDUM for Distribution

Subject: Designations for Apollo Missions

l. It appears necessary and appropriate that flight missions of Apollo Spacecraft be identified numerically. At present, both launch vehicle numerical designators and spacecraft serial numbers are being used for mission identification. It is inevitable that launch vehicles and spacecraft used for specific missions will change as schedules and requirements change. It is therefore requested that each Apollo flight mission be identified, in order of flight, according to the following scheme:

Pad Aborts

PA 1, PA 2

Missions utilizing Little
Joe II Launch Vehicles

A-001, A-002, etc.

Missions utilizing Saturn
C-1 Launch Vehicles

A-101, A-102, etc.

Missions utilizing Saturn
C-1B Launch Vehicles

A-201, A-202, etc.

Missions utilizing Saturn
C-5 Launch Vehicles

A-501, A-502, etc.

The A denotes Apollo.

The first digit stands for launch vehicle type or series.

The last two digits designate the order of Apollo spacecraft flights within a launch vehicle series.

- 2. Shown in the attached table are the numerical mission designations with the identification of the mission, spacecraft and launch vehicle.
  - 3. The Mission Objectives are those of the Oct 25, 1962, ASPO Program Plan.

Charles W. Frick

Manager, Apollo Spacecraft Project Office

IFB/ADM: da

Enc: Table



Downgraded at 3 year intervals. Declassified after 12 years.

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	A Second		
Apollo Mission Designation	Mission Objective	Launch Vehicle Number	Spacecraft Number or Configuration
PAD ABORTS			
PA 1	Launch Escape System Qualification	None	BP-6
PA 2	Structural Qualification	None	AFRM-010
Little Joe II			
A-001	Launch Escape System Qualification at Maximum "q" Abort	No. 1	BP-12
A-002	Command Module Stability During High Altitude Abort	No. 3	BP-22
A-003	Structural Qualification at Maximum "q" Abort	No. 4	AFRM-002
A-004	Spare	No. 2	BP-23
Saturn C-1			
A-101	Spacecraft Launch-Exit Environment	SA-6	BP-13
A-102	Checkout of EDS Components	SA-7	BP-9
A-103	Open Loop Checkout of EDS (Spare for A-101)	SA-9	BP-15
A-104	Closed Loop Checkout of EDS	SA-8	BP-16
A-105	First Manned Flight	SA-10	AFRM-009
A-106	Manned Flight	SA-111	AFRM-011
A-107	Manned Flight	SA-112	CM-SM
A-108	Manned Flight	SA-113	CM-SM
A-109	Spare	SA-114	CM-SM
A-110	Spare	SA-115	CM-SM
Saturn C-1B			
A-201	Spacecraft Launch-Exit Environment	SA-201	CM-SM (BP)
A-202	Closed Loop Checkout of EDS	SA-202	CM-SM (BP)

Downgraded at 3 year intervals; declassified



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Apollo Mission Designation	Mission Objective	Launch Vehicle Number	Spacecraft Number or Configuration	
A-203	Closed Loop EDS Checkout (Spare for A-201	) SA-203	CM-SM (BP)	
A-204	Closed Loop EDS Checkout	SA-204	CM-SM (BP)	
A-205	Manned CM, SM and LEM Development	SA-205	CM, SM, LEM*	
A-206	Manned CM and SM Development	SA-206	CM, SM	
A-207	Manned CM, SM and LEM Development	SA-207	CM, SM, LEM*	
A-208	Manned CM, SM and LEM Development	SA-208	CM, SM, LEM*	
A-209	Spare	SA-209	CM, SM, LEM*	
A-210	Spare	SA-210	CM, SM, LEM*	
Saturn C-5				
A-501	Closed Loop EDS Checkout	SA-501	CM-SM (BP)	
A-502	Spacecraft Launch-Exit Environment	SA-502	CM-SM (BP)	
A-503	Reentry Qualification	SA-503	CM	
A-504	Reentry Qualification	SA-504	CM	
A-505	Reentry Qualification	SA-505	CM	
A-506	Closed Loop EDS Checkout (Manned S/C Available)	SA-506	CM-SM (BP)	
A-507	Spacecraft Qualification (Earth Orbit)	SA-507	CM, SM, LEM	
A-508	Lunar Reconnaissance	SA-508	CM, SM, LEM	
A-509	Lunar Exploration	SA-509	CM, SM, LEM	
A-510	Lunar Exploration	SA-510	CM, SM, LEM	
A-511	Lunar Exploration	SA-511	CM, SM, LEM	
A-512	Lunar Exploration	SA-512	CM, SM, LEM	
A-513	Lunar Exploration	SA-513	CM, SM, LEM	
A-514	Lunar Exploration	SA-514	CM, SM, LEM	
A-515	Lunar Exploration	SA-515	CM, SM, LEM	



## ABBREVIATIONS:

BP with number - Boilerplate command module only.

BP without number - Denotes development hardware.

AFRM - Airframe, complete production spacecraft, except command module only for PA 2 and A-003.

EDS - Emergency Detection System.

LEM - Lunar Excursion Module.

LEM\* - Lunar Take-off Stage only.

