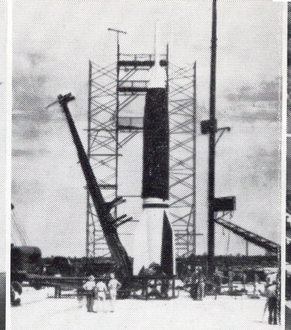
1940 Design began on ROC air-to-surface missile to fly down radar beam.

1944 KUD-1 Gargoyle, a radio-controlled dive bomb, was one of the Navy's first missile programs.

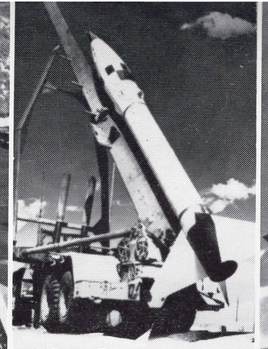
1946 Supersonic ASR-1 Aerobee used by USN in upper-atmosphere research programs.

1947 Navy's radar-guided Sparrow I was early operational air-to-air missile.

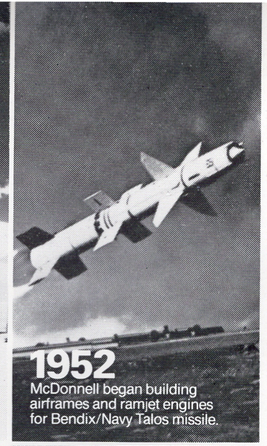


1949 Army's two-stage Bumper-Wac set altitude record of 250 miles, and speed record of 5,000 mph.

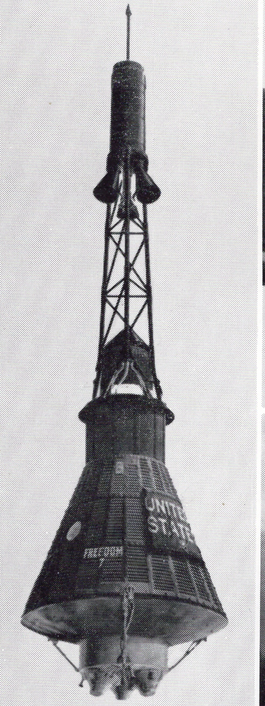
1951 Army's Nike Ajax was world's first supersonic anti-aircraft missile.



1952 Honest John, Army's tactical surface-to-surface missile, used conventional or nuclear warhead.



1952 McDonnell began building airframes and ramjet engines for Bendix/Navy Talos missile.

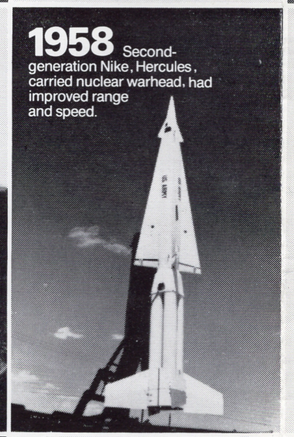


1955 Air Force's Bird Dog air-to-air missile had effectiveness of entire pod of HVAR rockets.

1957 Thor served USAF as intermediate-range ballistic missile, and later as a space booster.

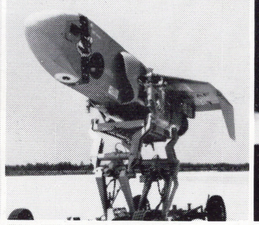
1957 Genie, high-velocity, air-to-air missile gave USAF nuclear defense capability.

1958 Second-generation Nike, Hercules, carried nuclear warhead, had improved range and speed.

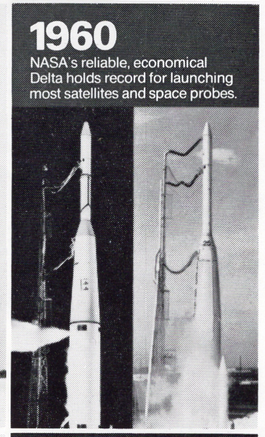


1959 USAF's Alpha Draco flew Mach 5 in guided flight within the atmosphere.

1960 Quail decoy missile duplicates characteristics and radar image of B-52 SAC bombers.



1960 NASA's reliable, economical Delta holds record for launching most satellites and space probes.



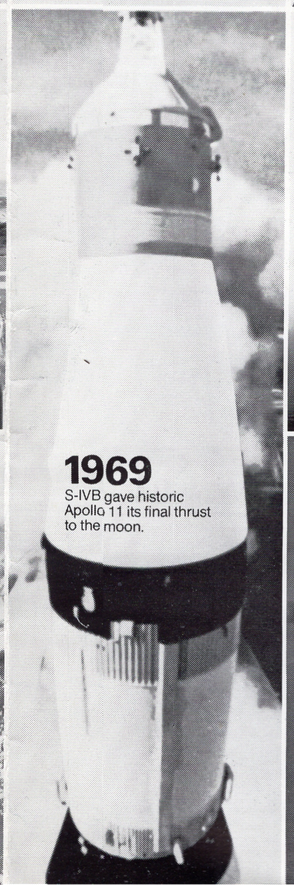
1961 Alan Shepard rode into history on May 5th aboard NASA's Mercury spacecraft "Freedom 7."

1961 Three-stage Nike Zeus anti-ballistic missile.

1962 John Glenn, in "Friendship 7," was first American to orbit Earth.

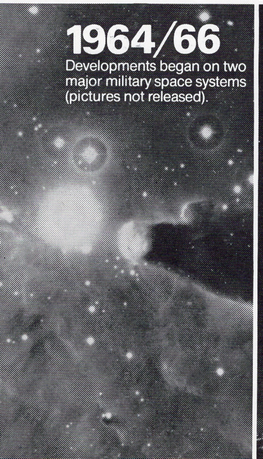
1962 Skybolt, Intermediate-range air-launched missile.

1963 Thor-launched ASSET space glider studied Mach-18 atmospheric flight for USAF.

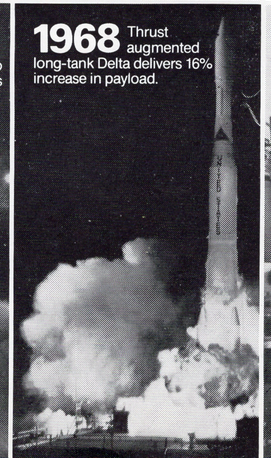


1965 NASA's Gemini III became world's first maneuverable spacecraft.

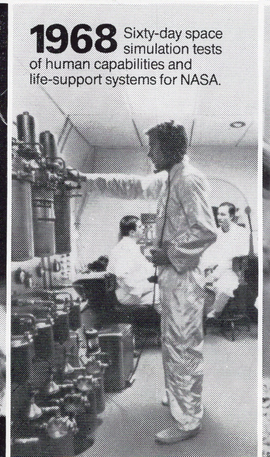
1965 Gemini VII orbited for two weeks—was target for first space rendezvous by Gemini VI.



1964/66 Developments began on two major military space systems (pictures not released).



1968 Thrust augmented long-tank Delta delivers 16% increase in payload.

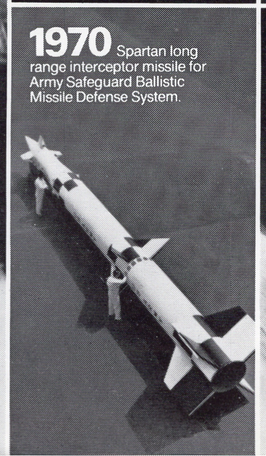


1968 Sixty-day space simulation tests of human capabilities and life-support systems for NASA.

1968 Dragon anti-tank/assault guided-missile was man-rated by the Army.

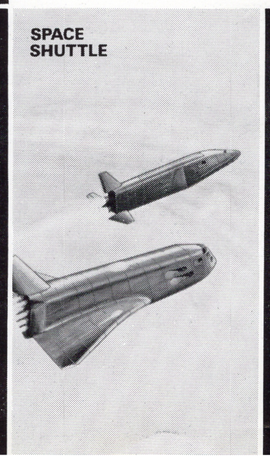
1968 First manned Apollo flight is pushed into orbit by S-IVB.

1969 S-IVB gave historic Apollo 11 its final thrust to the moon.

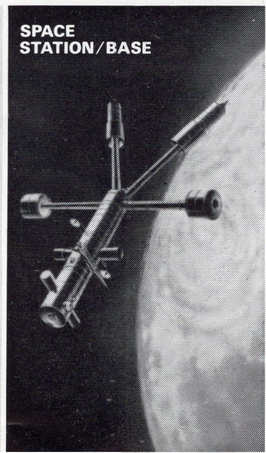


1970 Spartan long range interceptor missile for Army Safeguard Ballistic Missile Defense System.

1972 Orbital Workshop missions scheduled for NASA's Skylab program.



SPACE SHUTTLE



SPACE STATION/BASE

Three decades in missiles and space. It took teamwork.

Meet our great teammates: Army, Navy, Air Force, NASA, Great Britain, Canada, Japan, Comsat.

McDonnell Douglas has launched more satellites for our customers than any other industrial space team. □ Our customers consistently specified higher standards of reliability with advanced hardware. They got them. □ They expected on-time delivery followed by on-time launches. Together, we made it happen. □ We gained important technology in exotic materials, ablative reentry, environmental systems, systems integration, and life support systems. □ We teamed to put man in the loop, and his role continues to grow. □ For thirty years we've demonstrated the capability to lead any new space/missile program you can name. And to name a few new ones we're ready to lead: "Space Shuttle," "Space Station/Base," and "Harpoon."

MCDONNELL DOUGLAS