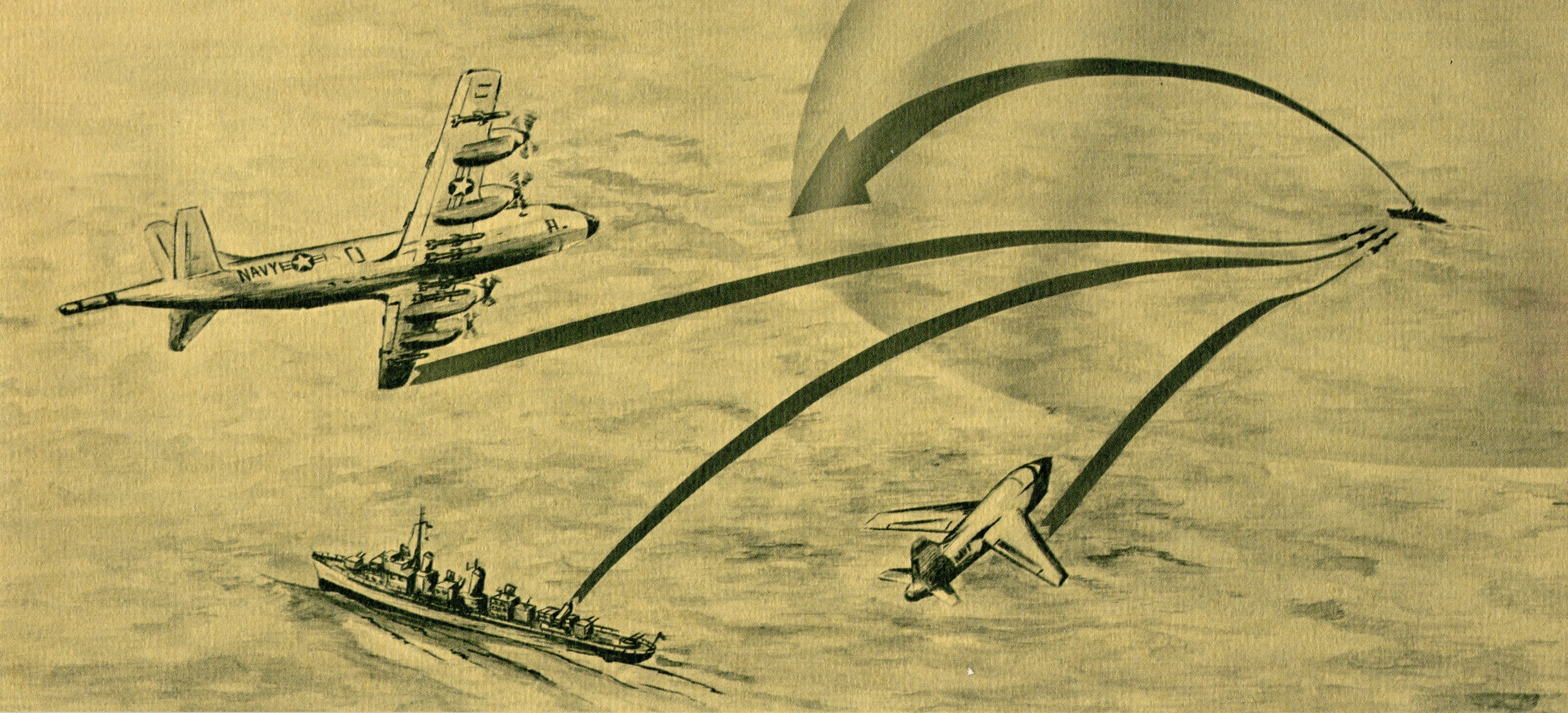
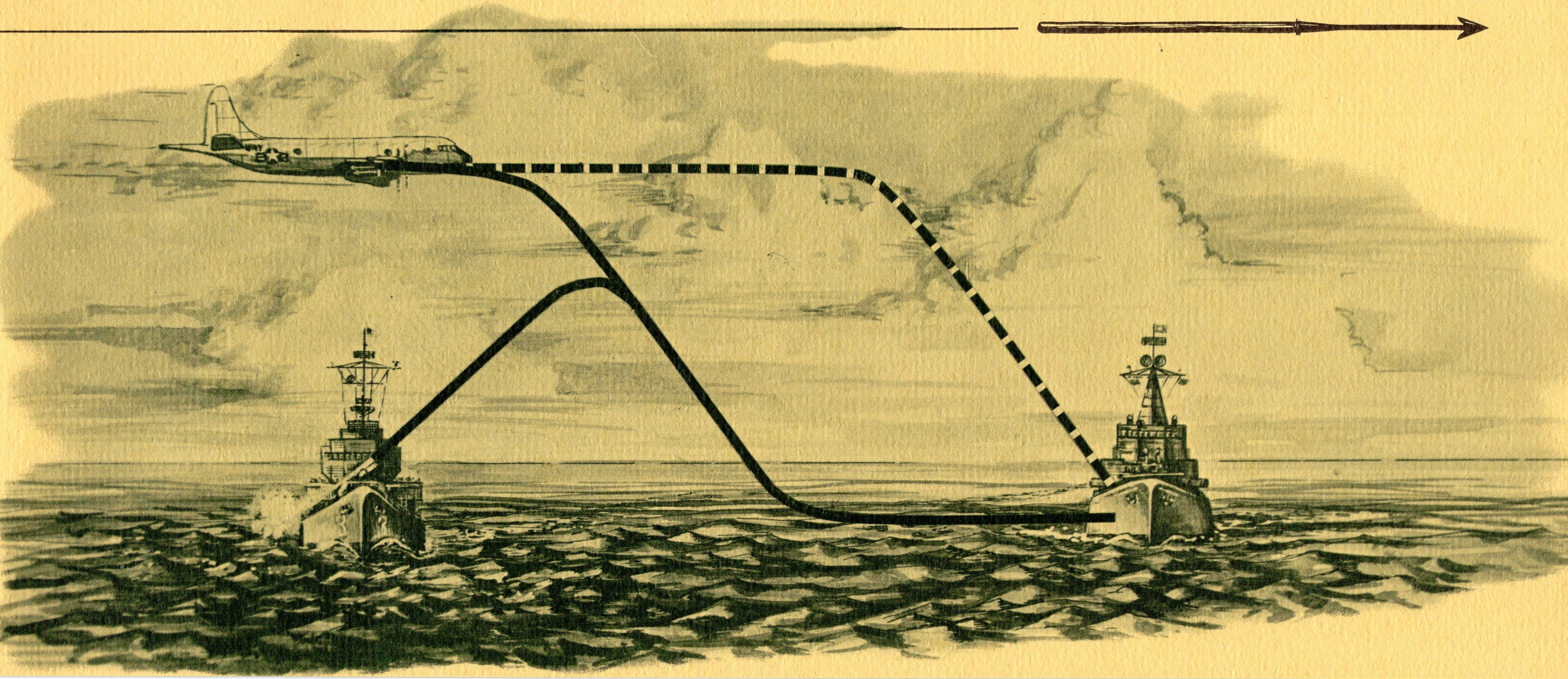
A LONGER REACH


NAVY

HARPOON

REACHES FROM AIR OR SURFACE
WITH SINGLE SHOT KILL
TO DEFEAT SURFACE THREAT
IN ALL WEATHER



HARPOON

THROUGH STATE OF THE ART TECH

SEEKER.....CURRENT FAMILY OF RADARS
DEMONSTRATED ON THE
GROUND AND IN THE AIR

ALTIMETER....CURRENTLY IN SERVICE

NOW

by MCDONNELL DOUGLAS CORPORATION

VOLOGY

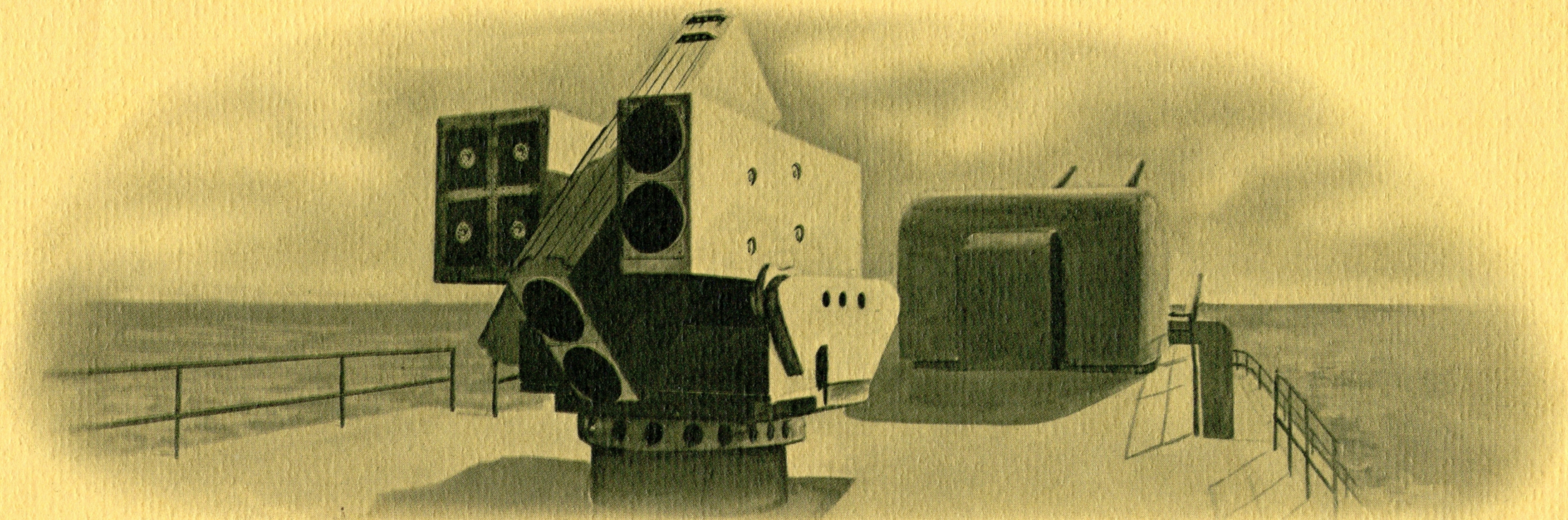
PROPULSION.....DEMONSTRATED MOTOR

PERFORMANCE.....DEMONSTRATED IN WINDTUNNEL

WARHEAD.....DEMONSTRATION UNDERWAY
BY U.S. NAVY

HARPOON

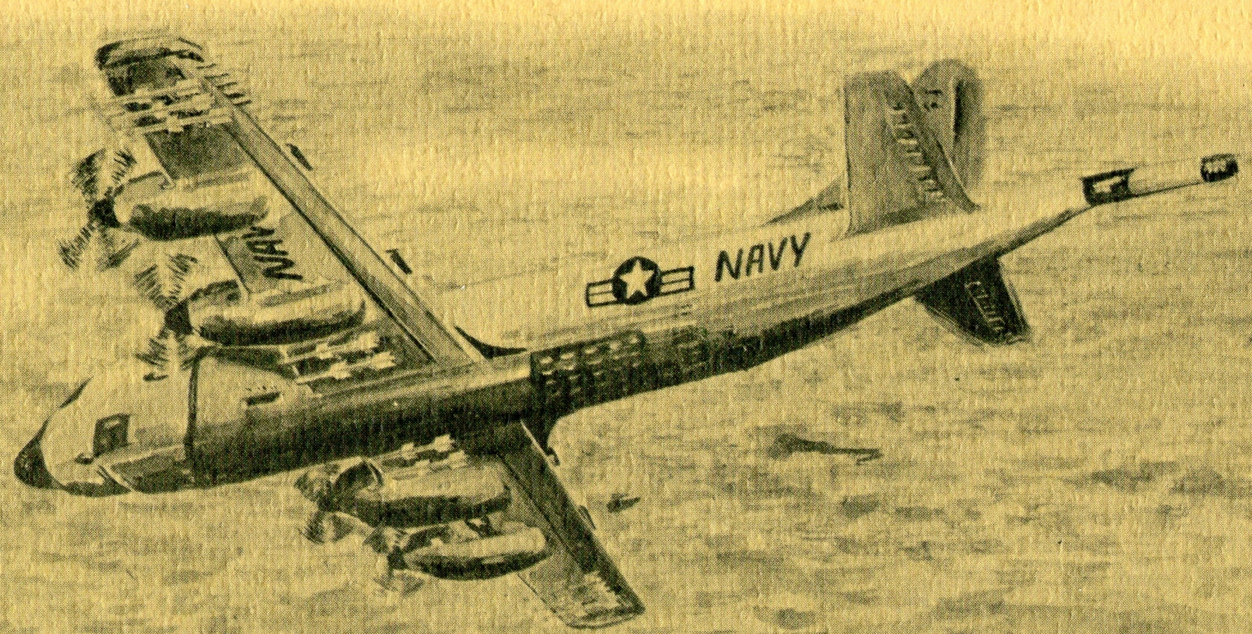
COMPATIBILITY/INTERFACE



LAUNCHED FROM EXISTING LAUNCHERS

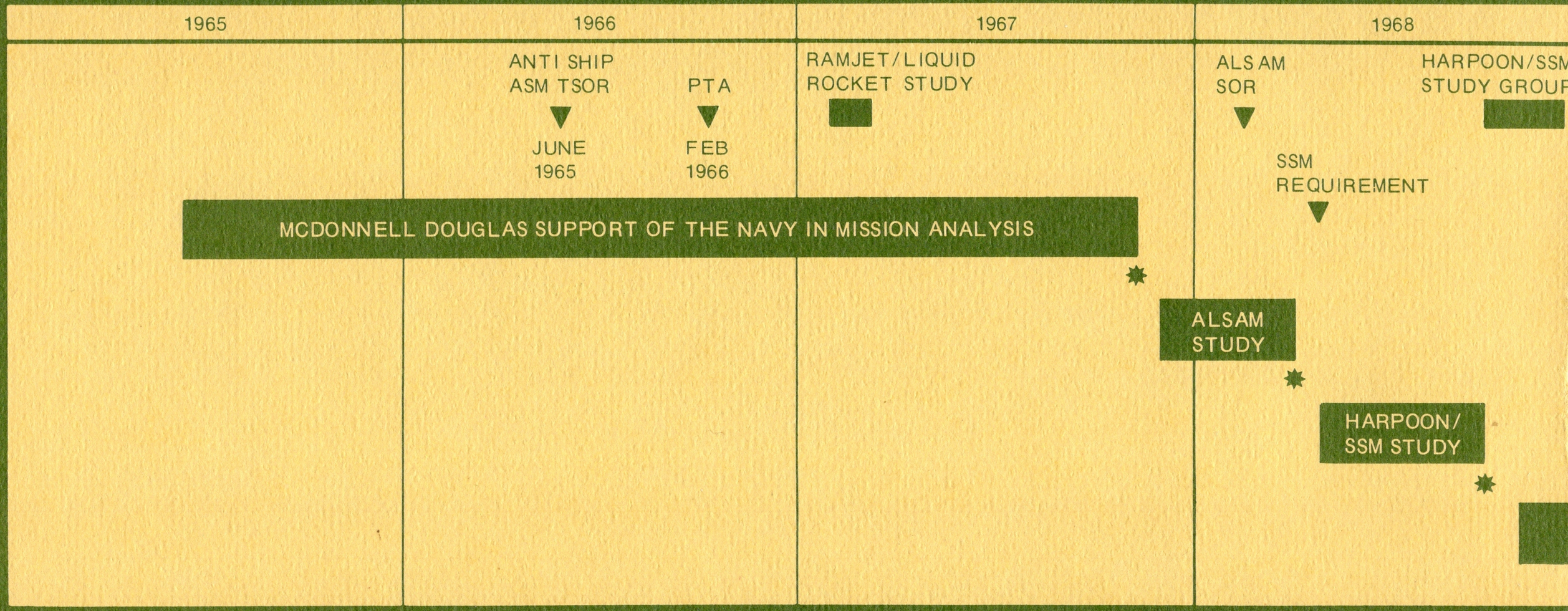
NOW

ESTABLISHED



....EXISTING RACKS

HARPOON


1965
1966
1967
1968
ANTI SHIP
ASM TSOR
JUNE
1965
PTA
FEB
1966
RAMJET/LIQUID
ROCKET STUDY
ALSAM
SOR
HARPOON/SSM
STUDY GROUP
SSM
REQUIREMENT
MCDONNELL DOUGLAS SUPPORT OF THE NAVY IN MISSION ANALYSIS
ALSAM
STUDY
HARPOON/
SSM STUDY

1969

HARPOON/SSM
SOR

HARPOON/SSM
RFP

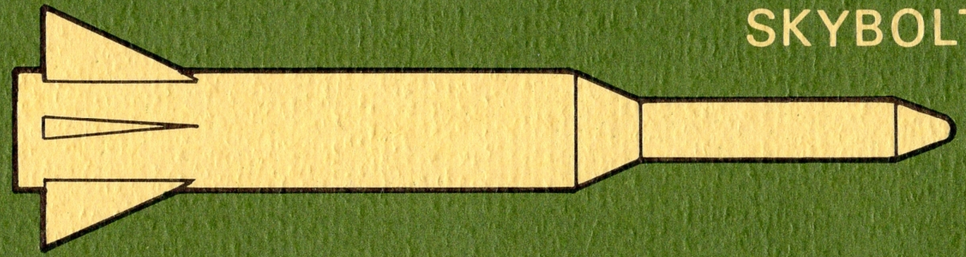
HARPOON/SSM
SYSTEM DEFINITION

NOW

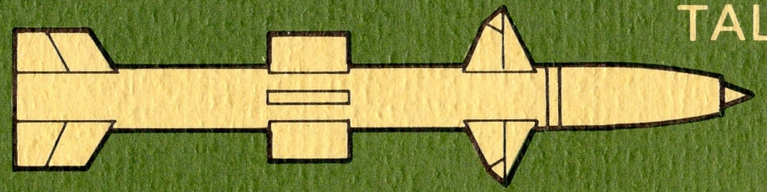
by THE READY TEAM

PARTICIPATION IN SYSTEM EVOLUTION

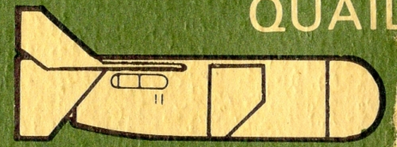
HARPOON



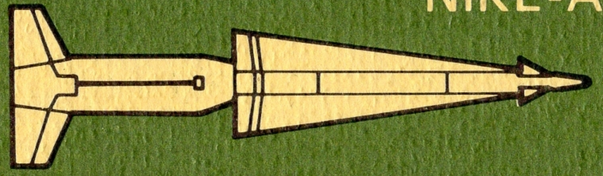
SKYBOLT



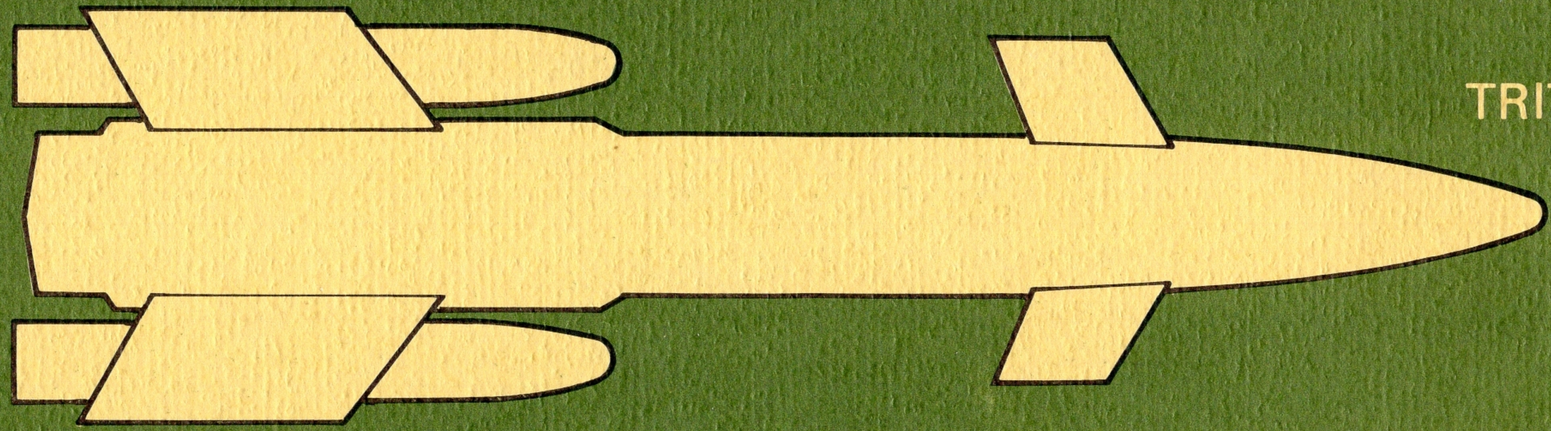
TALOS



QUAIL



NIKE-AJAX

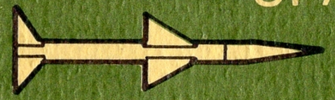


TRITON

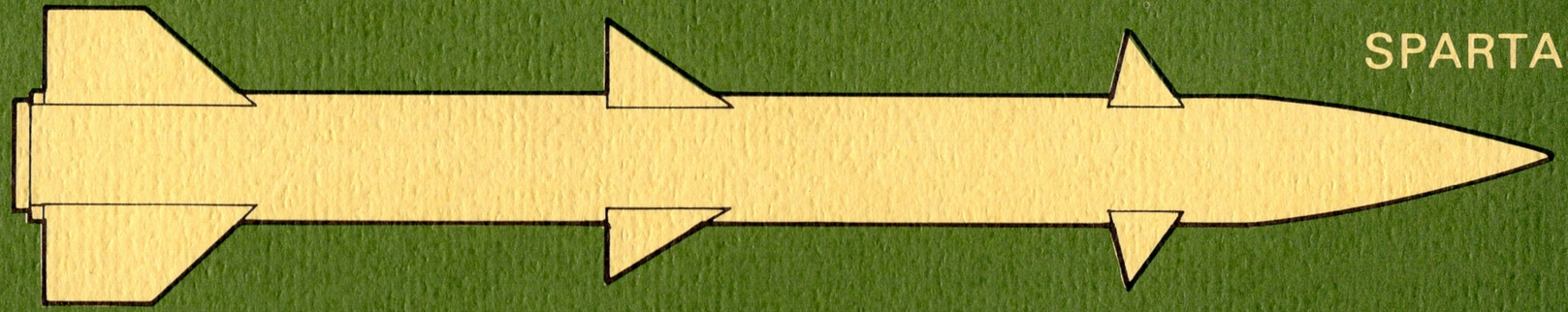
NOW

by AN EXPERIENCED MISSILE TEAM

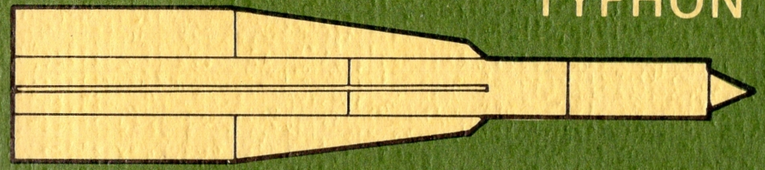
SPARROW II



SPARTAN



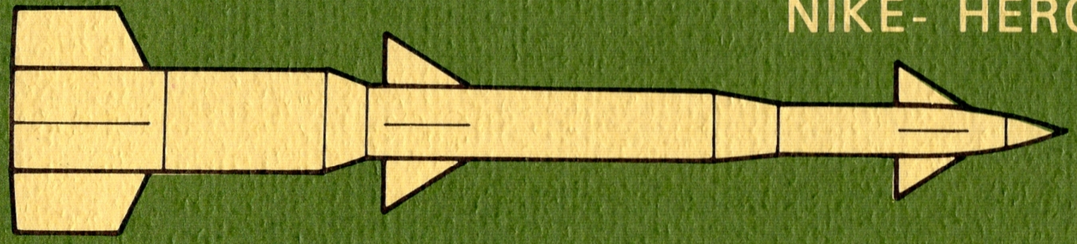
TYPHON



GENIE



NIKE- HERCULES



DRAGON



HARPOON

PROGRAM	SYSTEMS ENGINEERING	GUIDANCE	CONTROL	PROPULSION	AIRFRAME	PROGRAM HISTORY	
						ENGR. DEV.	PRODUCTION
TALOS (RIM 8A)	✸	✸	▲	▲	▲	ED & TEST	AIRFRAME
TRITON (XSSM–N–2)	✸	✸	✸	✸	✸	ED & TEST	–
TYPHON (RIM–50A)	✸	✸	▲	▲	▲	ED & TEST	–
SPARROW II (AIM 7B)	▲	▲	▲	▲	▲	ED & TEST	–
NIKE ZEUS/SPARTAN	▲	▲	▲	▲	▲	ED & TEST	PLANNED
NIKE HERCULES	▲	▲	▲	▲	▲	ED & TEST	PRODUCED
NIKE AJAX	▲		▲	▲	▲	ED & TEST	PRODUCED
QUAIL (ADM–20A)	▲	▲	▲	▲	▲	ED & TEST	PRODUCED
GENIE (AIR–2A)	▲			▲	▲	ED & TEST	PRODUCED
SKYBOLT	▲	▲	▲	▲	▲	ED & TEST	–
DRAGON	▲	▲	▲	▲	▲	ED & TEST	PLANNED
THOR FAMILY	▲	▲	▲	▲	▲	ED & TEST	PRODUCED
HONEST JOHN	NA	NA	NA	▲	▲	ED & TEST	PRODUCED

NOW

by THE "CAN DO" TEAM

SUMMARY OF MDAC MISSILE PRODUCTION AND DEVELOPMENT PROGRAMS

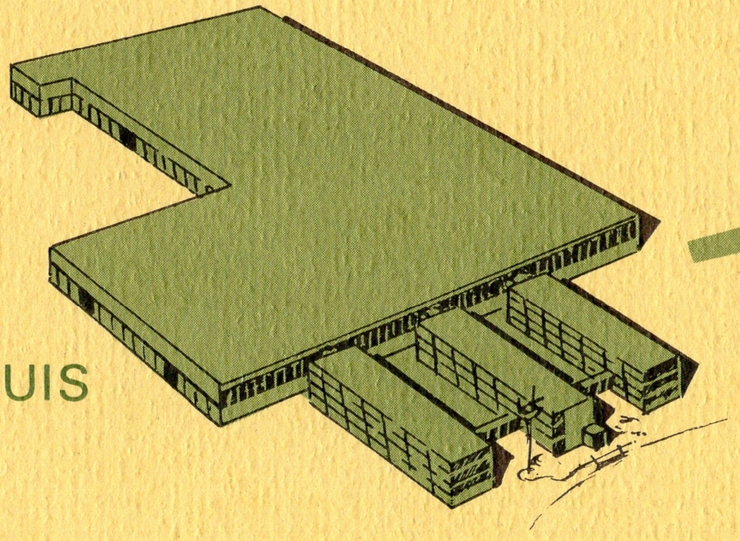
MISSILES PRODUCED	MAXIMUM PRODUCTION RATE MONTH
916	56
10,000	236
13,000	250
618	30
10,000	160
453	
5,000	165

▲ MDAC PRIME CONTRACTOR

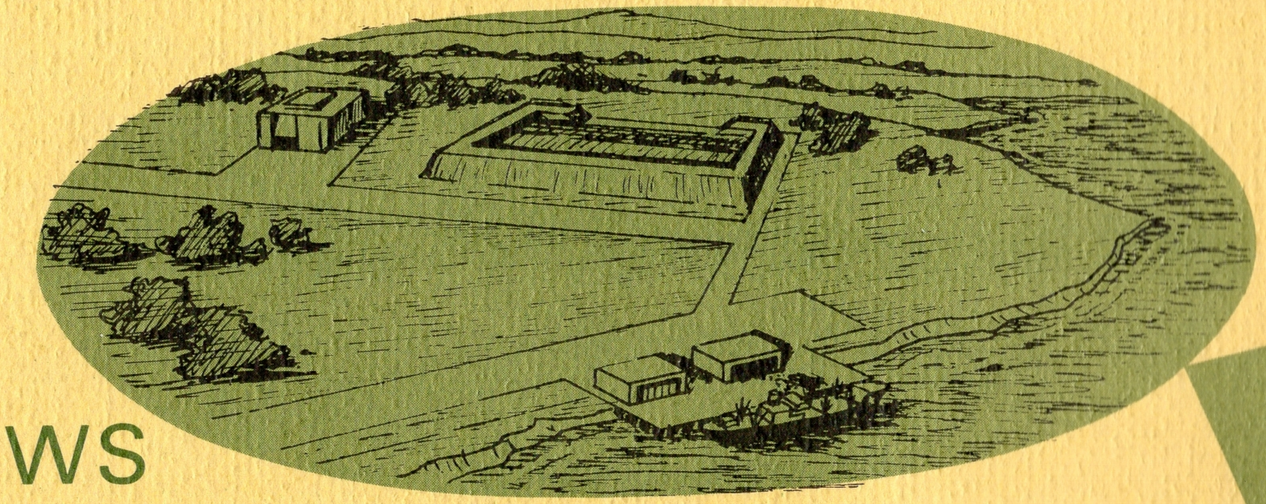
✸ MDAC MAJOR CONTRIBUTOR

HARPOON

PRODUCTION PLAN



MDAC
ST. LOUIS



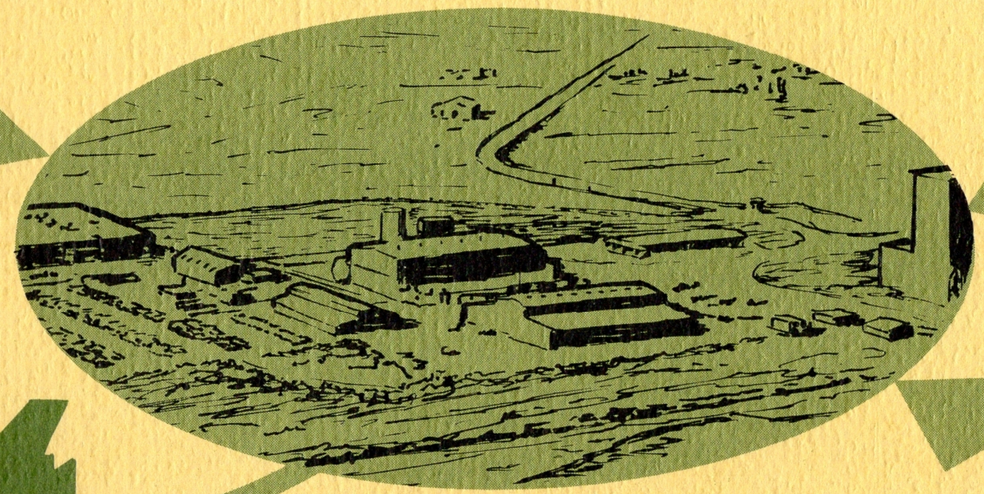
NWS

NOW

..... AND HOW

SUBASSEMBLIES
LESS WARHEAD
AND MOTORS

MDAC ASSEMBLY SITE



GFE

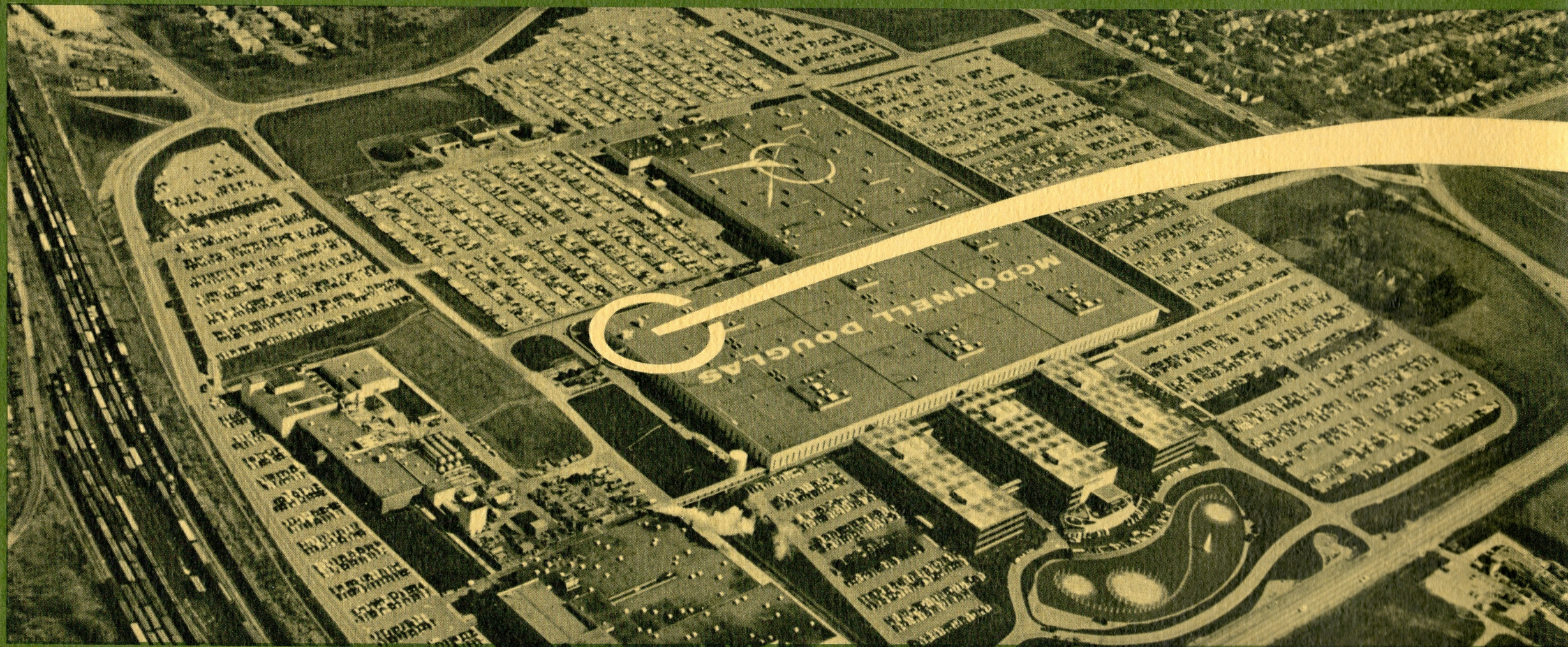
WARHEAD

COMPLETE ROUND

MOTORS

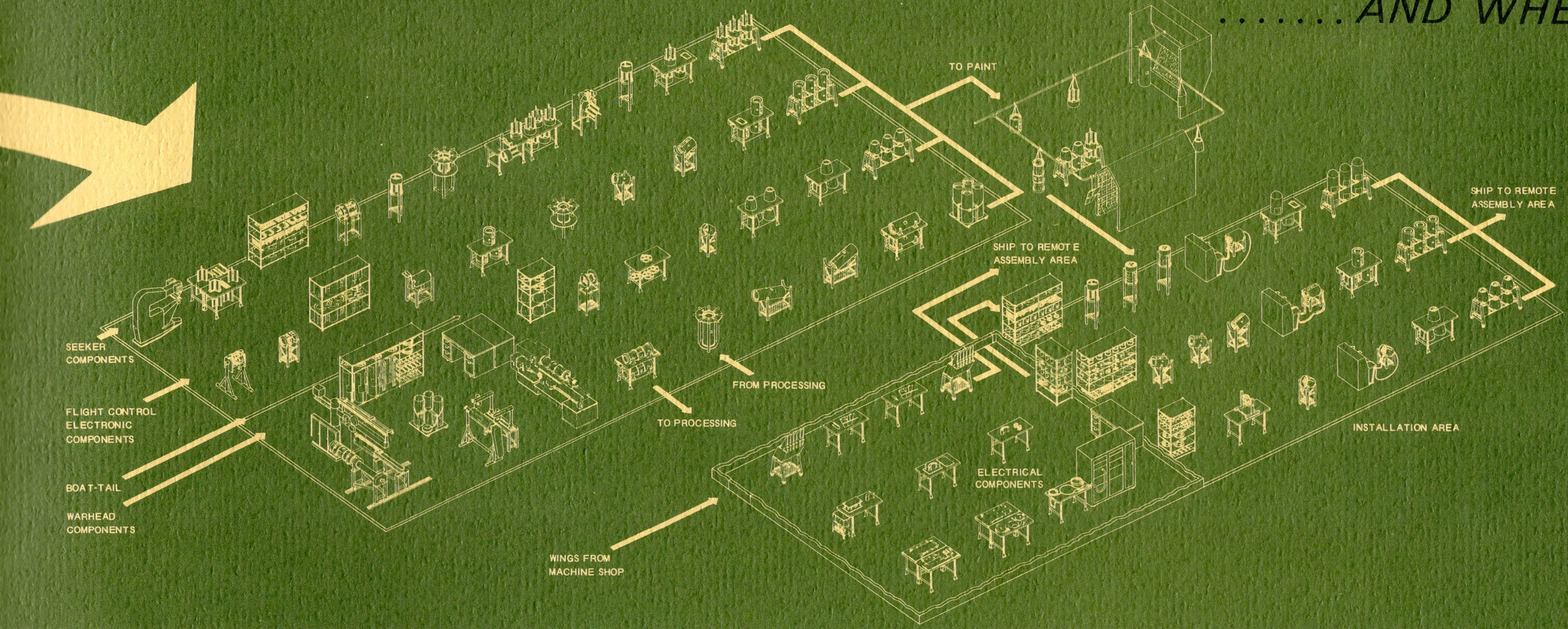
SUB-
CONTRACTOR

HARPOON

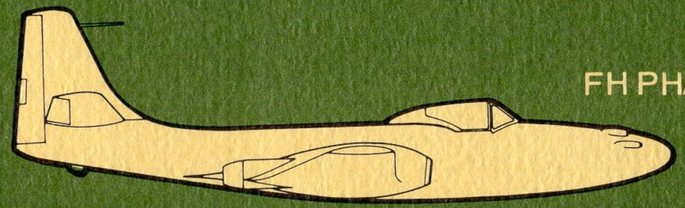


NOW

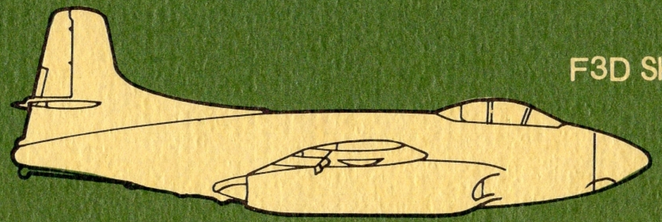
.....AND WHERE



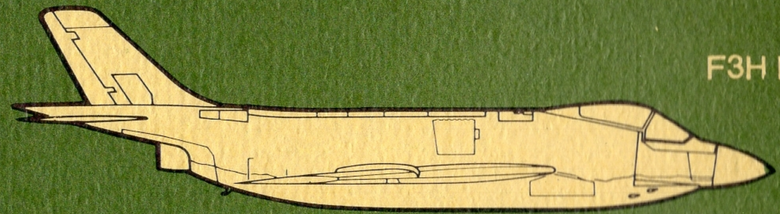
HARPOON



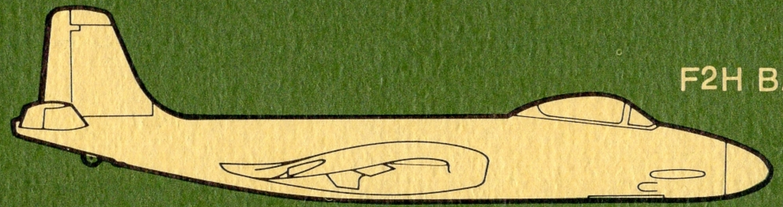
FH PHANTOM I



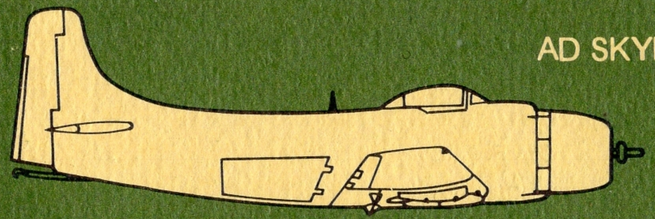
F3D SKYKNIGHT



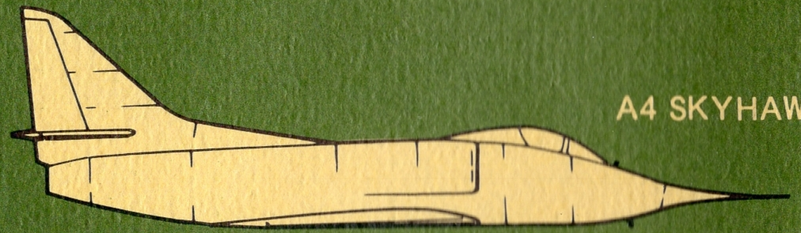
F3H DEMON



F2H BANSHEE



AD SKYRAIDER



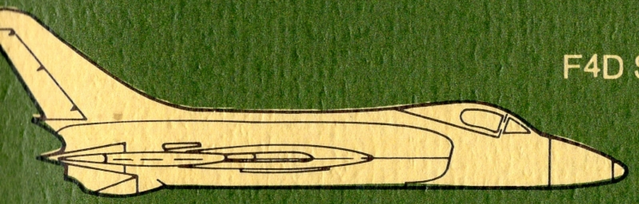
A4 SKYHAWK

NOW

by THE NAVY FAMILY PRODUCER

..... EXPERIENCED IN

MISSILE SYSTEM INTEGRATION

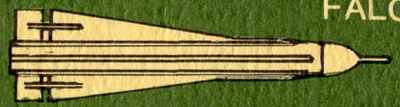


F4D SKYRAY

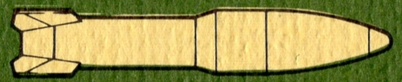
SPARROW I SYSTEM

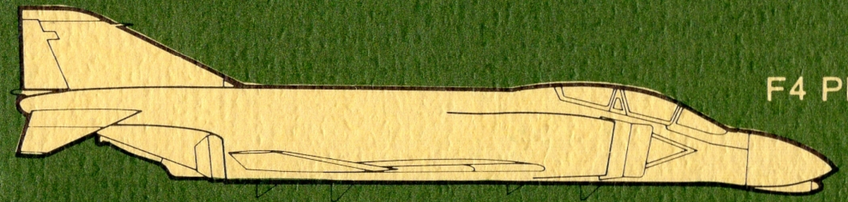


FALCON SYSTEM



GENIE (MB–1) SYSTEM



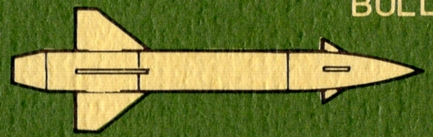


F4 PHANTOM II

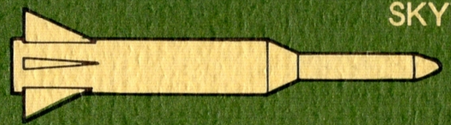
SIDEWINDER SYSTEM



BULLPUP SYSTEM



SKYBOLT SYSTEM



SPARROW III SYSTEM



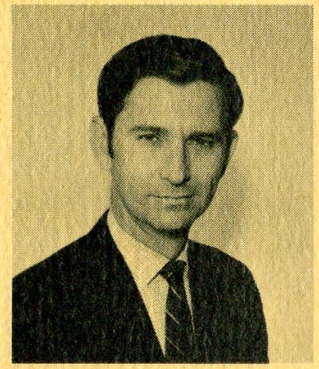
HARPOON



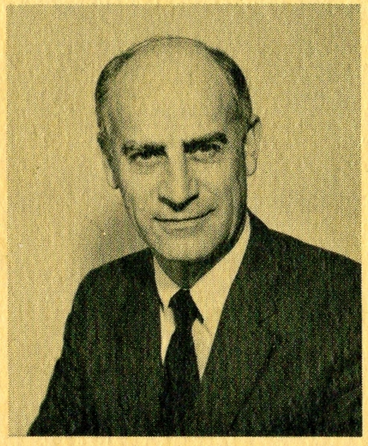
VICE PRESIDENT–
DIRECTOR
R.W. LOWE



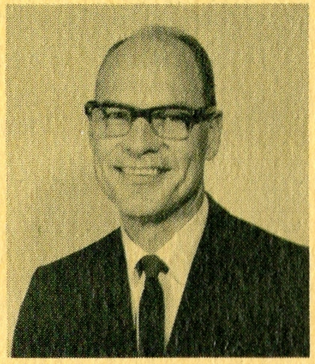
ENGINEERING
N.J. GOLDING



ADVANCED
REQUIREMENTS
J.R. CALDWELL



DEPUTY
H.L. FLOWERS



PROGRAM
STAFF
V.E. NETHERTON



INTEGRATED
LOGISTIC SUPPORT
R.T. WARNER

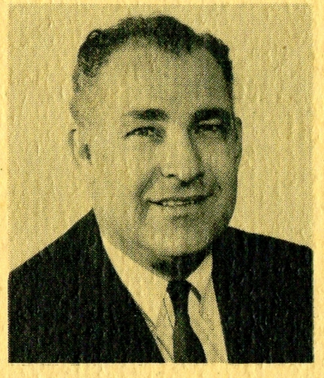
NOW

by THE MANAGEMENT TEAM

THAT DELIVERS!



MATERIAL
J. VALKY



MANUFACTURING
W.H. WATKINS



QUALITY
ASSURANCE
E.L. REED



LAUNCH OPERATIONS
J.A. SCHRIEFER



MARKETING
G.A. MATHER

MCDONNELL DOUGLAS ASTRONAUTICS COMPANY
EASTERN DIVISION

Saint Louis, Missouri 63166 (314) 232-0232