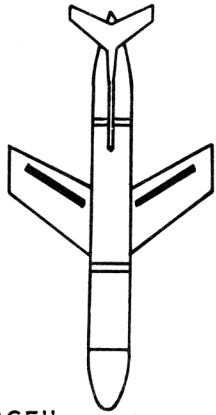
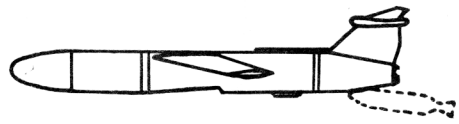


Characteristics Summary

TACTICAL MISSILE (RFML) CGM-13B (TM-76A)



"MACE"



MARTIN

Wing Area 151.5 sq ft Length 44.2 ft
 Span 22.9 ft Height 9.7 ft

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

STATUS			
First YCGM-B (formerly YTM-61B)	Oct 55	Squadron Deployment	Apr-May 59
First synthetic film flight	Apr 58	Rapid Fire Multiple Launch (RFML) posture proved	May 60
Production	May 58	RFML incorporated tactically	Oct 61
End of R&D	Apr 59		
Navy Equivalent: None		Mfr's Model: ---	

POWER PLANT	
(1) J33-A-41	Allison
THRUST RATINGS	
S. L. S.	LB - RPM - MIN (Inflight)
Max:	5200 - 12,150 - 30
Nor:	4600 - 11,750 - Cont
BOOSTER	
Nr & Model	(1) * M-16E1-3
Mfr	Thiokol Chem. Corp
Thrust (lb)	101,152
Duration (sec)	2.67
Nominal (70° F)	
*With TUX-IS-140 igniter	

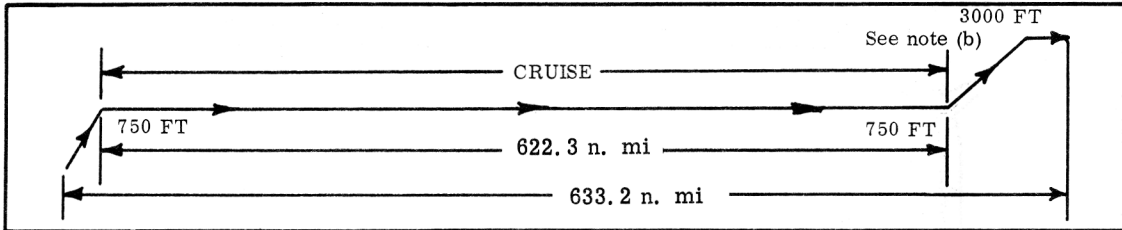
FEATURES	
Tactical Missile capable of destroying targets thru low-level approaches	
Swept shoulder type wing	
"T" type tail	
Self-contained guidance	
All weather operation	
Low level operation reduces vulnerability to enemy radar detection	
Rapid Fire Multiple Launch permits all alert missiles to be launched in approx 10 minutes in salvos of 4	
Launched from zero length launcher from hardened sites with assist from booster rocket	
Max Fuel Cap:	1029 gal

GUIDANCE	
(a) INITIAL:	Programmed Pitch and Air-speed Control
(b) MID-COURSE:	ATRAN map-matching from lock-on point to end of mission
(c) TERMINAL:	None-- Missile detonation programmed at end of mission
CONTROL	
Auto-pilot	

d.m. white 3/31/77

DOWNGRADED AT 3 YEAR INTERVALS;
 DECLASSIFIED AFTER 12 YEARS
 DOD DIR 5200.10

Characteristics Summary Basic Mission CGM-13B (TM-76A RFML)



PERFORMANCE

ENDURANCE	RANGE	S P E E D
NOT APPLICABLE	633.2 naut mi. with 1700 lb payload at 470 knots avg. in 1.35 hours	CRUISE 470 knots at 750 ft alt, power 11,280 RPM (96% RPM)
LAUNCHING	CLIMB	ALTITUDE
Ground launched from hardened sites on Zero-length launcher. No catapult or runway required but a RATO booster is used for additional thrust.	2200 fpm sea level, initial climb wt. , max power	Begin Cruise 750 ft.
	2110 fpm 750-3000 ft alt, final climb wt. , 11,280 RPM (96% RPM)	End Cruise 750 ft.
L O A D	W E I G H T S	TARGET ACCURACY
Payload: 1700 lb Fuel: 1029 gal protected 0 % droppable 0 % external 0 %	Empty 8904 lb Launch 18,569 lb (see note c)	SYSTEM CEP CEP .70 NM (600 NM)* CEP 1.20 NM (1200 NM) *System CEP as an interval estimate with 95% confidence in between .515 NM & 1.658 NM

N O T E S

- PERFORMANCE BASIS:
 - Estimated data
 - Missile is detonated at altitude at end of mission
 - Includes weight of booster rocket
- REVISION BASIS: To reflect current characteristics and performance, target accuracy redefined, and model designation change.