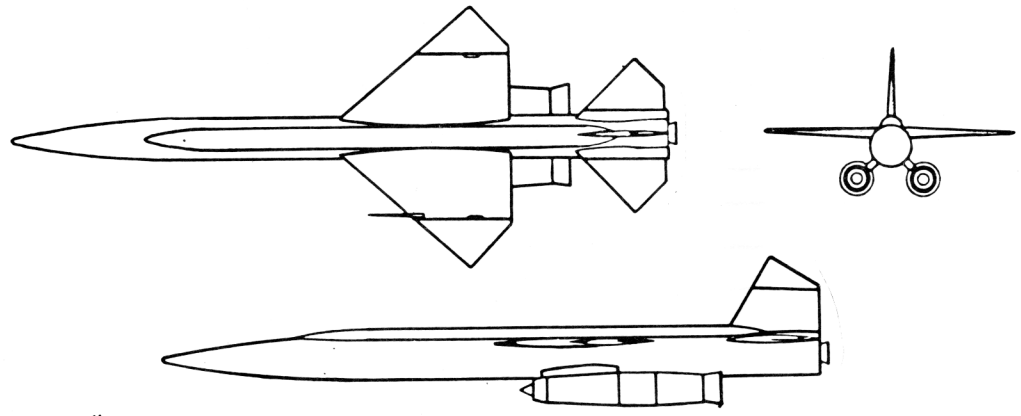


# Characteristics Summary

INTERCEPTOR MISSILE . . . . . IM-99A



"BOMARC" BOEING

Wing Area . . . . . 141.9 sq ft    Length . . . . . 46.8 ft  
Span . . . . . 18.2 ft    Height . . . . . 10.3 ft

A V A I L A B I L I T Y			P R O C U R E M E N T			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

S T A T U S	
1. Contract Nr & Date (XIM-99A): AF33(038)-19589 1951 to 1959 (YIM-99A): AF33(600)-32832 1955 to 1959 (IM-99A): AF33(600)-35359 30 Apr 1959	4. Category II tests to be completed: Sep 1959 5. Category III tests to start : Sep 1959 Mfr's Model: 624-2-3
2. Initial delivery date (IM-99A): 30 Apr 1959 3. Operational date (IM-99A): 1 Sep 1959 Navy Equivalent: None	

P O W E R   P L A N T		
SUSTAINER		
(2) RJ43-MA-3		
Marquardt		
ENGINES RATINGS		
ALT	LB	MACH
65,000	1500	2.65
BOOSTER		
Nr & Type... (1) LR59AJ-13		
Mfr . . . . . Aerojet		
Max Thrust (lb) . . . 35,875		
Duration (sec) . . . . . 41.2		

F E A T U R E S
Mono-Wing, tail control configuration Modified delta wing, 50° sweepback Pressure fed propellant systems Nuclear or H.E (Rod Warhead) (Kit installation of telemeter for tests or training)

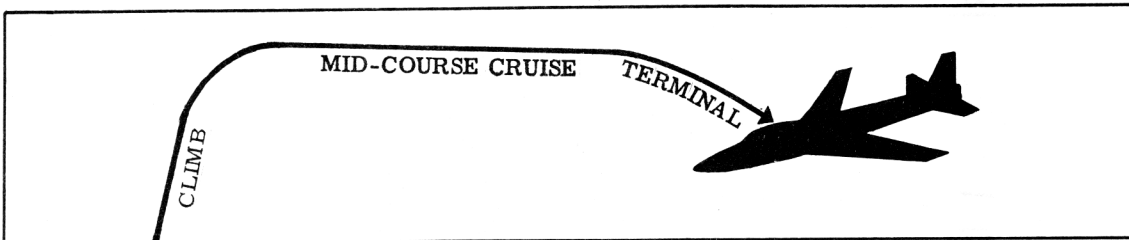
G U I D A N C E
Control of missile is integrated with SAGE System
<b>LAUNCH:</b> Follows pre-set course, no external commands
<b>MID-COURSE</b> Ground Mark X radar tracking Airborne transponder Receiver-Decoder responds to ground commands
<b>TERMINAL</b> AN/DPN-34 homing system independent of ground control.
<b>CONTROL</b> Maneuver Control and Coordinate Converter

CLASSIFICATION CANCELLED  
 (OR CHANGED TO Unclassified)  
 BY AUTHORITY OF DoD Dir 5200.10  
 (INDIVIDUAL OR WRITTEN AUTHORITY)  
 BY William M. White 22 Mar 73  
 (NAME & GRADE OF INDIVIDUAL MAKING CHANGE) (DATE)

CONFIDENTIAL  
 DOWNGRADED AT 3 YEAR INTERVALS  
 DECLASSIFIED AFTER 12 YEARS.  
 DOD DIR 5200.10  
a. h. somerton  
11 Apr 67

57704983

*Characteristics Summary Basic Mission* . . . . . IM-99A



<b>P E R F O R M A N C E</b>		
<b>ENDURANCE</b>	<b>RANGE</b>	<b>S P E E D</b>
Not Applicable	230 naut. mi.* with 352 lb payload at 65,000 ft altitude  *Aerodynamic capability shown. Guaranteed compliance with all Government Specifications and requirement of 150 n. miles range.	CRUISE M = 2.60 at 65,000 ft  Min M = 1.2 at 10,000 ft alt, power off
<b>LAUNCHING</b>	<b>CLIMB</b>	<b>ALTITUDE</b>
Launched automatically from individual weather-protected shelters. Boost rocket ceases firing at approximately 31,000 feet.	1170 fps at boost burnout	Begin Cruise 65,000 ft.  End Cruise 65,000 ft.
<b>L O A D</b>	<b>W E I G H T S</b>	<b>T A R G E T A C C U R A C Y</b>
Nuclear Warhead 352 lb Rod Warhead 333 lb Propellants: Fuel (Ramjets) 1581 lb Fuel (Rocket) 1441 lb Oxidizer (Rocket) 5491 lb	Nuclear Version Gross 15,685 Launch 15,637 Initial Cruise 8170 Burn-out 7185 Reduce weights 19 lb for Rod warhead version	_____

**N O T E S**

1. Performance Basis:  
 (a) Contractor's estimated data calculations based on flight test data.  
 (b) Performance Reference: Boeing Document D5-2606, dated February 3, 1958  
 (c) Propellants are as follows:  
     Ramjet Fuel - Gasoline Grade 80  
     Rocket Fuel - JP-X (JP-4 plus Unsymmetrical Dimethyl-Hydrazine)  
     Rocket Oxidizer - Inhibited Red Fuming Nitric Acid

2. Revision Basis:  
 To reflect latest performance data.