

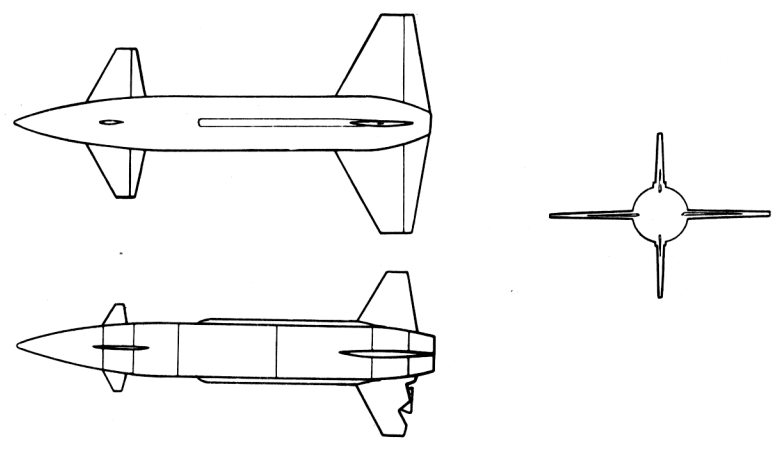
~~Black Book~~
~~Confidential~~
 S E C R E T

CA
 Rascal
 (X) GAM-63

CLASSIFICATION CANCELLED
 (OR CHANGED TO *Unclassified*)
 BY AUTHORITY OF *DoD Dir SMO-10*
 (INDIVIDUAL OR WRITTEN AUTHORITY)
By: a.R. Lambert 8 Oct 68
 (NAME IN GRADE OF INDIVIDUAL MAKING CHANGE) (DATE)

Characteristics Summary

GUIDED AIRCRAFT MISSILE ... XGAM - 63



" RASCAL "

BELL

Wing Area 114.65 sq ft Length 32.0 ft
 Span (Fin) 16.7 ft Height 12.5 ft

AVAILABILITY

PROCUREMENT

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

STATUS

- Project Approved: 29 Apr 46
- Launching 1st Powered Article: Sep 52
- Launching 1st Guided Article: Oct 53
- Thirty-eight powered GAM-63 test vehicles launched to date.
- Completion of suitability tests is scheduled for Feb 58

Navy Equivalent: None

Mfr's Model: 56F

POWER PLANT

SUSTAINER
 (1) YLR 67-BA-9
 Bell Aircraft Co.

THRUST RATINGS

S.L.S.	LB	Duration (sec)
Max:	3480(ea)	145
Altitude (40,000 ft)		
Max:	*4000(ea)	135

NOTE: Three thrust chambers operate during 2 minute boost period.

FEATURES

Canard Cruciform Arrangement
 Launched from DB-47
 Wings are of Multiple-rib Tapered Skin Construction

Max Fuel Cap: 293 gal
 Max Oxidizer: 600 gal

GUIDANCE

- SYSTEMS
- (a) INITIAL: Standard navigation procedures using modified K series equipment up to launching point.
 - (b) MID-COURSE: Single-axis inertial
 - (c) TERMINAL: Radar Relay-Command Link

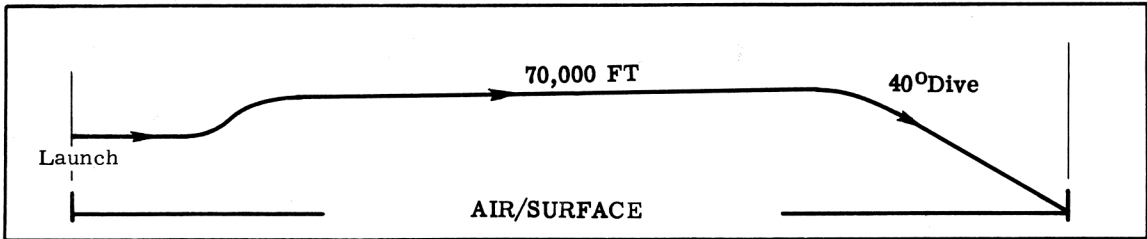
CONTROL

Servo Pilot

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

Classification cancelled *Confidential*
 or changed to *Unclassified*
 DoD Dir SMO-10
 AUTH: *A.F. H. ...*
 By *a.R. Lambert* 6 Sept 67
 Signature and Grade *23 Feb 67*

Characteristics Summary Basic Mission . . . XGAM-63



P E R F O R M A N C E		
ENDURANCE	RANGE	S P E E D
289 Seconds	90 naut mi. with 3000 lb payload at 1123 knots avg. in 289 seconds	Max 3.3 Mach at 70,000 ft alt,
LAUNCHING	CLIMB	ALTITUDE
Dropped externally from DB-47	NOT APPLICABLE	Launch 40,000 ft. Cruise 70,000 ft.
L O A D	W E I G H T S	T A R G E T A C C U R A C Y
Nuclear Warhead: 3000 - 5000 lb	Empty 5900 lb	(a) Surface target: *CEP = 1500 ft (b) Air burst: *CEP = 1500 ft Vertical standard deviation = 500 ft
Fuel: 293 gal Oxidizer: 600 gal protected 0 % droppable 0 % external 0 %	Launch 18,200 lb	*Circular error probable

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

N O T E S
<p>1. PERFORMANCE BASIS: (a) Estimated data</p> <p>2. Revision Basis: To revise characteristics.</p>