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Document Number _____

UNCLASSIFIED

Historical Document
Undergoing Classification Review

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Exempt from DOE Current Markings
Criteria by Authority of Edward J. McCallum
Memorandum dated March 16, 1992

Protect As

SECRET
(Level)

RESTRICTED DATA
(Category)

Pending Review
This Document May Require Coordinate Review

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW DATE: 5/27/02
AUTHORITY: ☐ ADC ☒ ADC ☐ ADD
NAME: M Pfeifer
2ND REVIEW DATE: 09240
AUTHORITY: ADD
NAME:
DETERMINATION (CIRCLE NUMBER)
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO:
3. CONTAINS NO DOE CLASSIFIED INFO
4. COORDINATE WITH: DOD
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFO BRACKETED
7. OTHER (SPECIFY): 10 pp.

AIR FORCE REV. LTR 10/8/02
Force concurs w/ DOE brackets

RESTRICTED DATA
This Document Contains Restricted Data as defined in the Atomic Energy Act of 1954. Unauthorized Disclosure Subject to Administrative and Criminal Sanctions.

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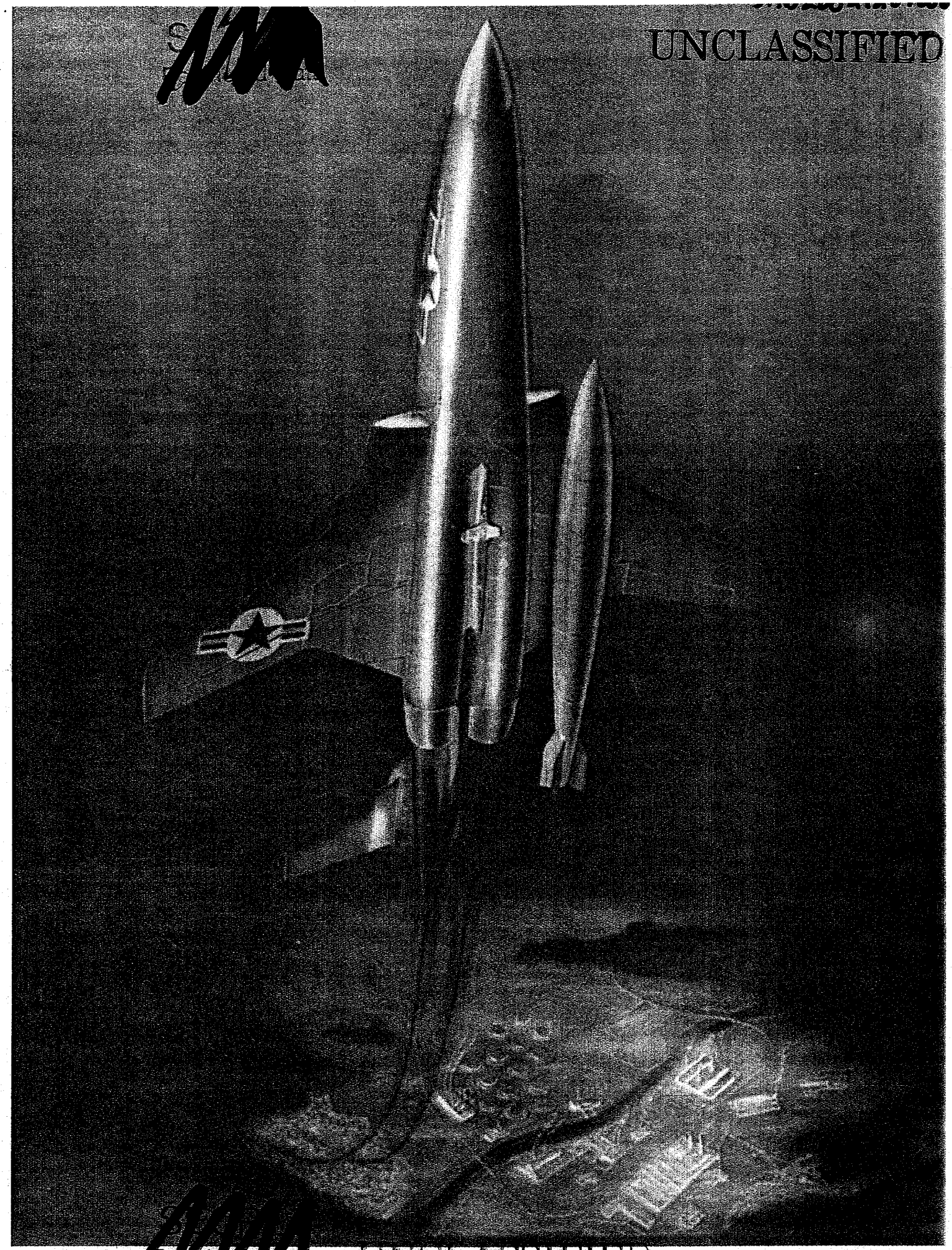

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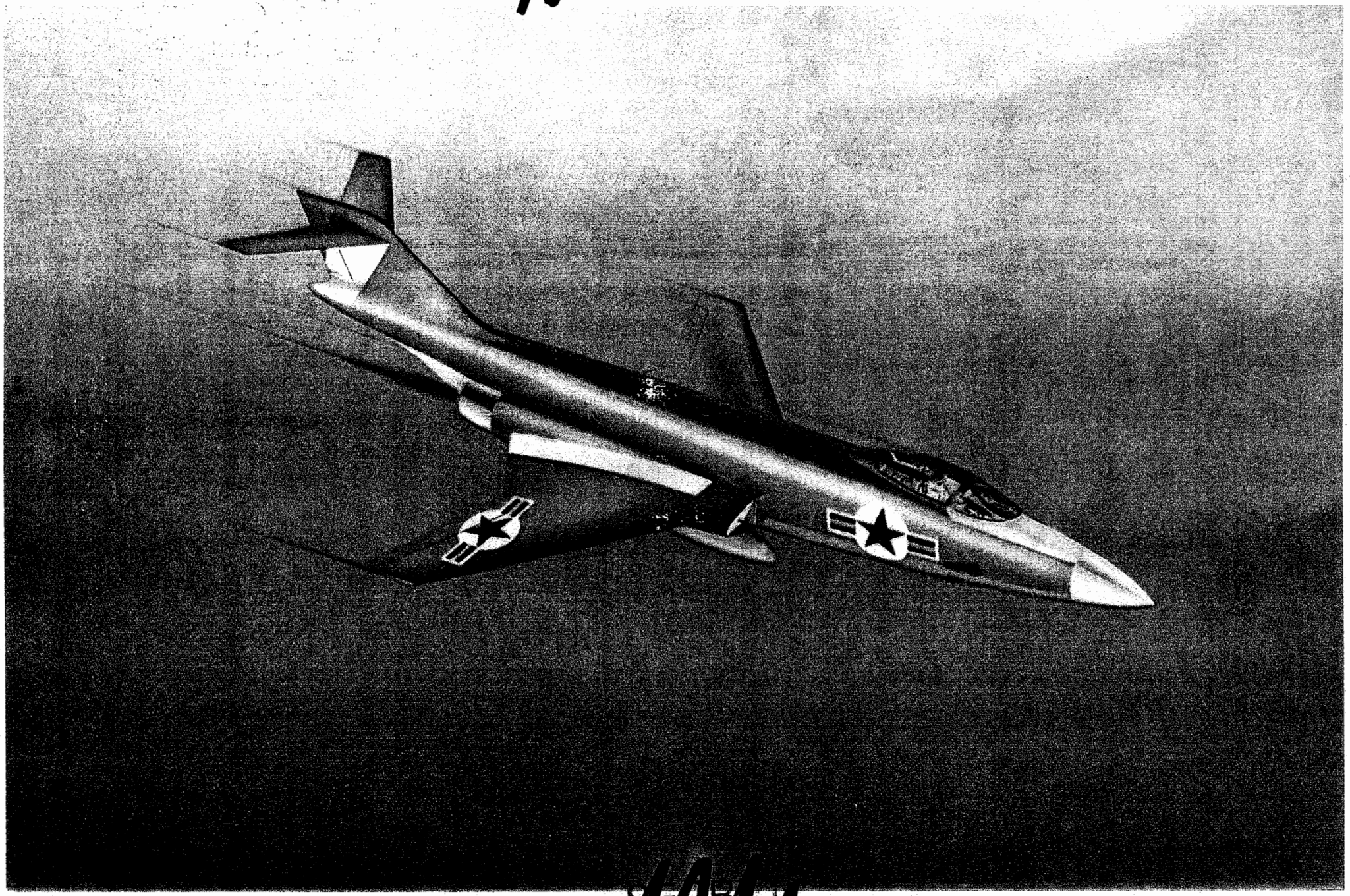

M.A.C. MODEL 96

DoE
b(3)

[redacted]

XW-5/F-101A WEAPON
COMPUTER AND ESCAPE TOSS BOMBING LIMITS
650 KNOTS CAS
30° DIVERGENCE 5G PULLUP

ENTRY ALTITUDE - 1000 FT.

COMPUTER LIMIT

DIVE ENTRY ANGLE - DEG.

22 June 1954

[redacted]

22 June 1954

XM-5/F-101A WEAPON
ESCAPE DISTANCE VS RELEASE ANGLE
LOW ALTITUDE BOMBING SYSTEM (LABS)

ESCAPE DISTANCE - 1000 FT.

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F-101A AND VOODOO 67 MISSION SUMMARY

TAKE-OFF GROSS WEIGHT IS LIMITED TO 50,000 LBS. FOR F-101A AIRPLANE AND 51,000 LBS. FOR VOODOO 67 AIRPLANE BY OFF-LOADING EXTERNAL FUEL FOR MISSIONS WITHOUT IN-FLIGHT REFUELING.

IFR MISSIONS ARE RUN WITH EXTERNAL TANKS FULL AND INTERNAL FUEL OFF-LOADED AT TAKE-OFF. INTERNAL FUEL ONLY IS BURNED PRIOR TO IFR, ALLOWING REFUEL WEIGHTS TO EXCEED TAKE-OFF WEIGHTS.

MISSION	RADIUS (NAUT. MILES) F-101A	RADIUS (NAUT. MILES) VOODOO 67		EXTERNAL SHAPES
FIGHTER	1009	873		TWO 450 GAL. TANKS ONE MODEL 96 EXTERNAL FUEL SHAPE WITH 1110 GALS.
STORE DELIVERY	1060	990		ONE W-5 (MAC MODEL 96) ATOMIC WARHEAD AND FUEL SHAPE
STORE DELIVERY	753	688		ONE TX-15, 8000 LB. THERMO-NUCLEAR WARHEAD AND FUEL SHAPE
STORE DELIVERY	999	924		[redacted] b(3) DOE
STORE DELIVERY	1582	1453		REFUELER SHAPE WITH 1285 GALS. ONE W-5 (MAC MODEL 96) ATOMIC WARHEAD AND FUEL SHAPE
STORE DELIVERY	2174	1841		ONE REFUELER SHAPE WITH 1285 GALS. ONE W-5 (MAC MODEL 96) ATOMIC WARHEAD AND FUEL SHAPE OR ONE TX-15, 8000 LB. THERMO-NUCLEAR WARHEAD AND FUEL SHAPE OR [redacted] b(3) DOE
	RANGE (NAUT. MILES)			
FERRY	2482	2173		TWO 450 GAL. TANKS ONE MODEL 96 EXTERNAL FUEL SHAPE WITH 1110 GALS.
FERRY	3213	3084		ONE REFUELER SHAPE WITH 1285 GALS. ONE MODEL 96 EXTERNAL FUEL SHAPE WITH 1400 GAL.

NOTE: MAXIMUM FUEL CAPACITY OF MODEL 96 SHAPE:

WITH W-5 WARHEAD. . . . . 849 GALS.
WITH TX-15, 8000 LB. WARHEAD . . . . . 198 GALS. DOE b(3)
WITH I.F.R. EQUIPMENT . . . . . 1285 GALS.
WITH FUEL ONLY . . . . . 1400 GALS.

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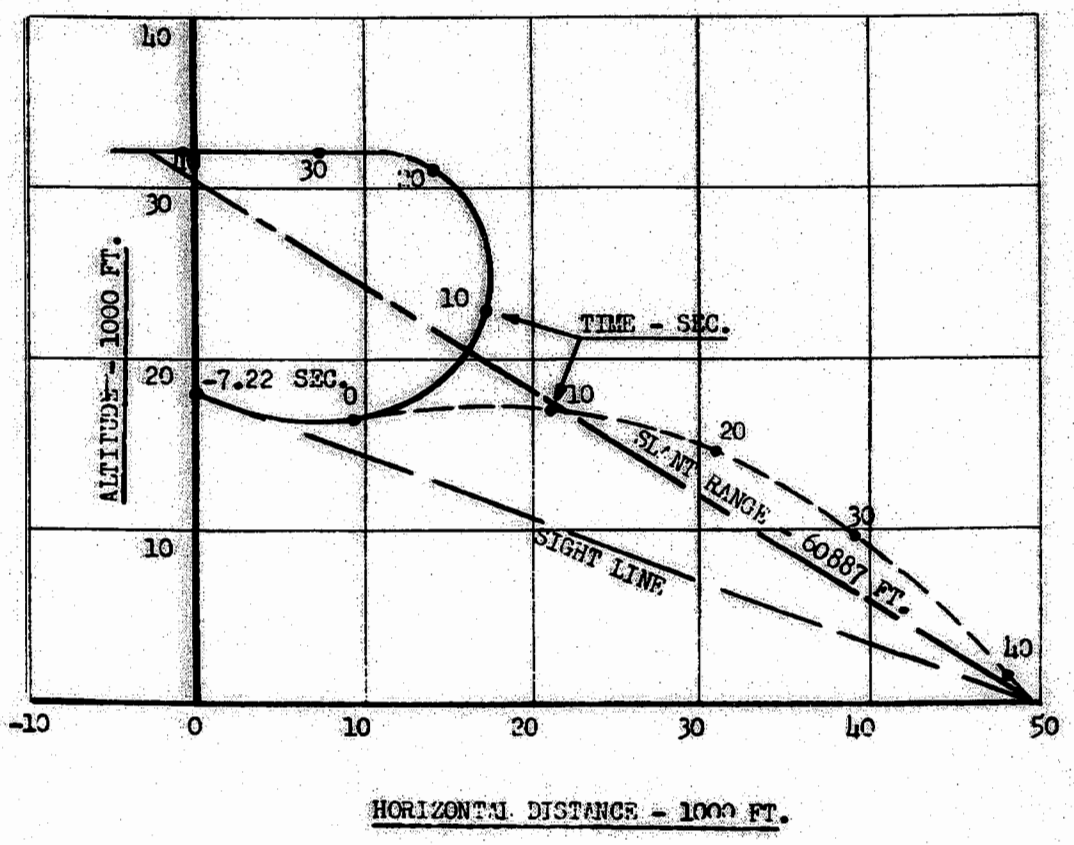
XW-5/F-101A WEAPON
AIRPLANE AND STORE FLIGHT PATH
TOSS BOMB DELIVERY

[redacted]

INITIAL CONDITIONS
ALTITUDE: 18000 FT.
THRUST: MIL + A/B
SPEED: M = 1.30 = 805 KNOTS
(650 KNOTS C.A.S.)
DIVE ANGLE: 20^0
LOAD FACTOR: 5g REACHED IN 4 SECONDS AND HELD CONSTANT TO BUFFET



22 June 1956

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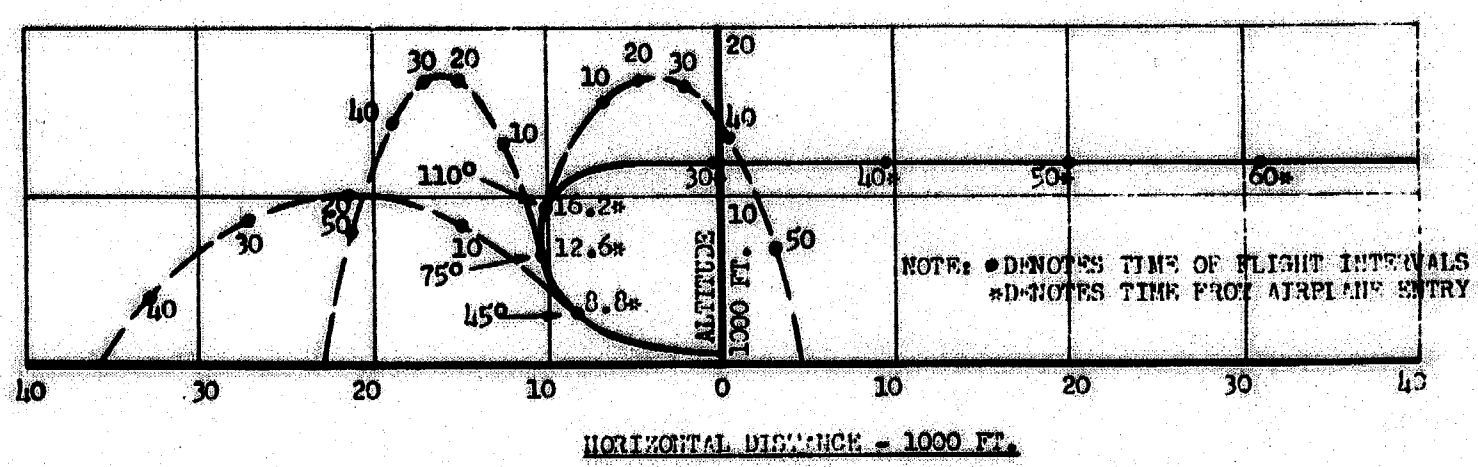
XW-5/F-101A WEAPON
AIRPLANE AND STORE FLIGHT PATH
LOW ALTITUDE BOMBING SYSTEM (LABS)

[redacted]

INITIAL AIRPLANE CONDITIONS:
ALTITUDE: 500 FT.
ENGINE THRUST: MILITARY + A/B
SPEED: V-MAX LEVEL FLT. = 627 K = .95 M
LOAD FACTOR: 4.5G REACHED IN 4 SEC.
AND HELD CONSTANT TO
BUFFET (110°)



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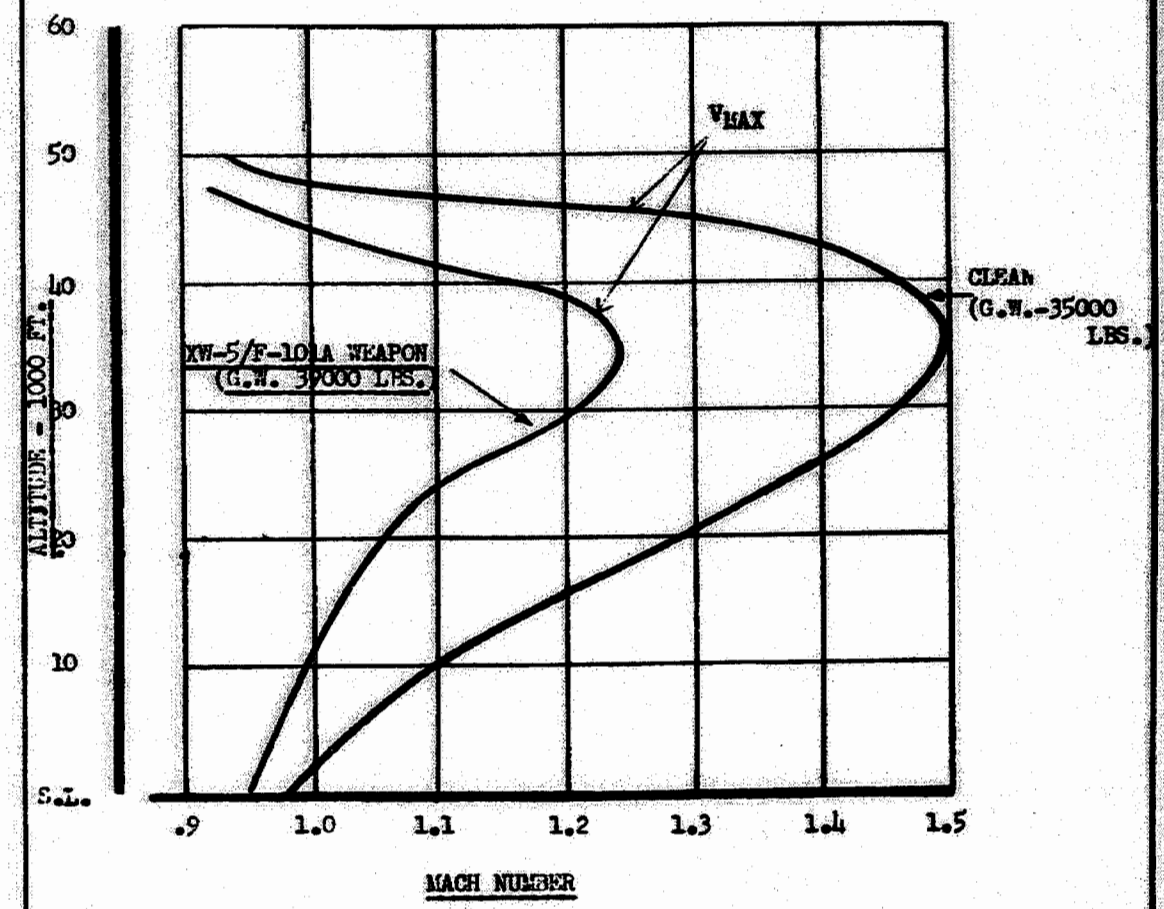
ATOMIC ENERGY ACT

F-101A AIRPLANE
XW-5/F-101A WEAPON
MAXIMUM MACH NUMBER VS. ALTITUDE
(2) J-57-P-13 ENGINES

MAXIMUM POWER



22 June 1954

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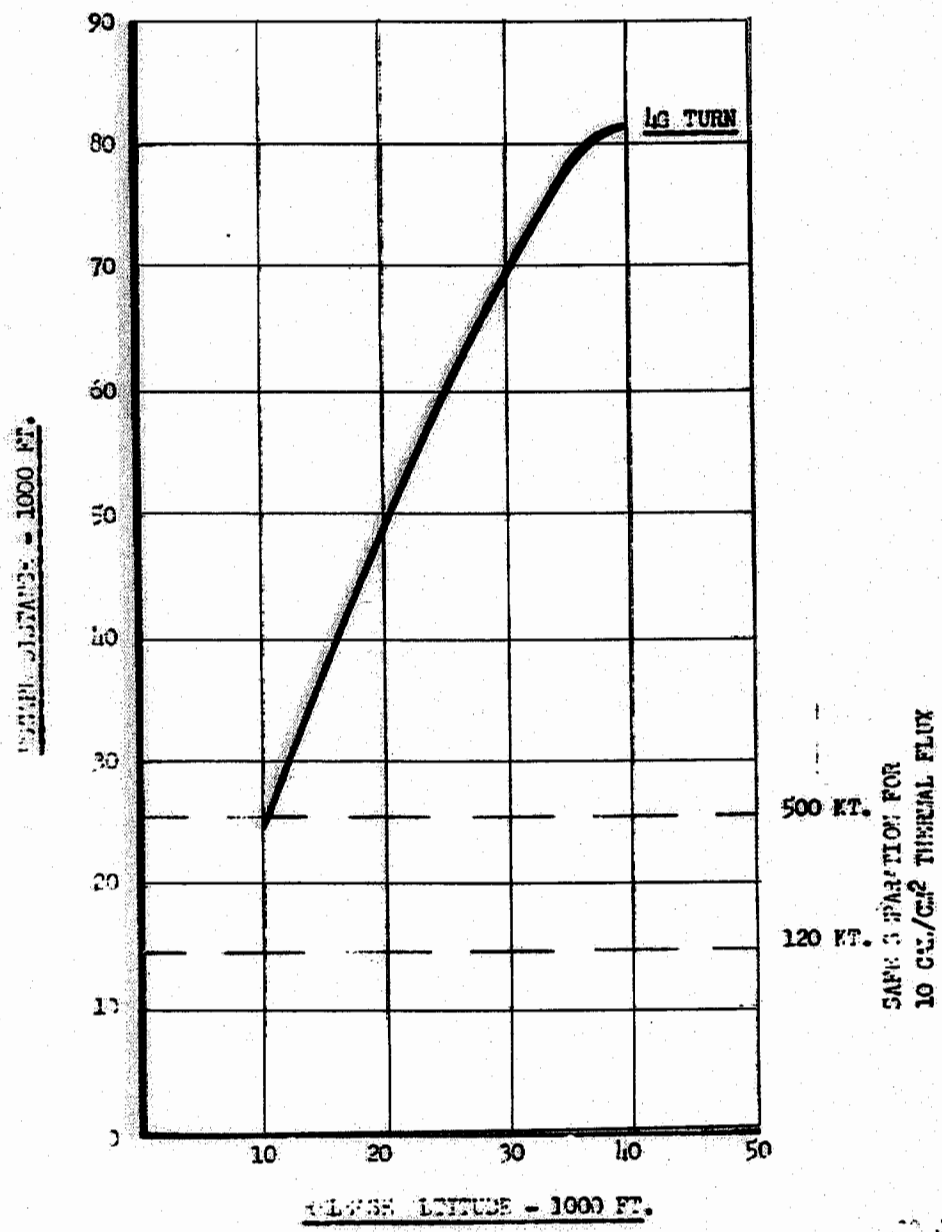
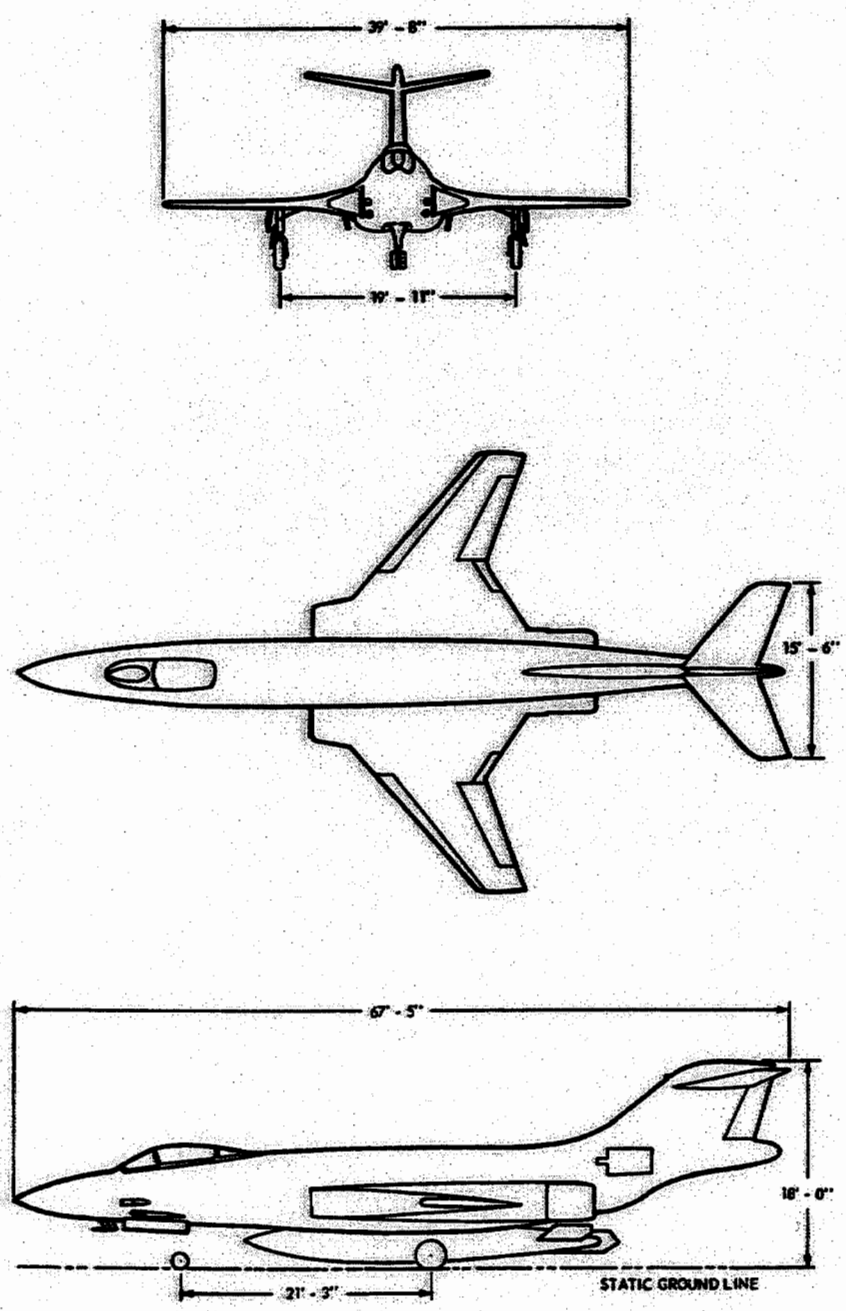
XW-5/F-101A WEAPON
ESCAPE DISTANCE VS RELEASE ALTITUDE
LEVEL FLIGHT RELEASE AT VMAX STORE ON
SEA LEVEL EXPLOSION

180° LEVEL TURN ESCAPE



22 June 1954



F-101A GENERAL ARRANGEMENT