

TOP SECRET

24 November 1965

Page 1

B-52 BOMBER
UNITED STATES

M-4 (BISON) BOMBER
USSR

1. WEAPON CATEGORY:

THE B-52 WAS PRIMARILY DEVELOPED FOR USE AS A STRATEGIC LONG RANGE BOMBER, BUT FURTHER MODIFICATIONS WERE PRODUCED TO HANDLE RECONNAISSANCE AND MISSILE LAUNCHING ROLES.

THE M-4 DEVELOPED TO FILL A NEED FOR A LONG RANGE HEAVY JET BOMBER. FURTHER MODIFICATIONS HAVE ENABLED A RECONNAISSANCE ROLE.

2. RESEARCH AND DEVELOPMENT:

THE B-52 WAS DESIGNED BY [REDACTED]

THE M-4, BISON WAS DESIGNED BY THE MYASISHCHEV SPECIAL DESIGN BUREAU (OKB) WHICH WAS LOCATED AT THE MOSCOW/FILI AIRFRAME PLANT NO. 23.

3. PRODUCTION:

[REDACTED] MAJOR PRODUCTION PLANTS, [REDACTED]

[REDACTED] TOTAL OF 744 B-52's OF ALL MODELS PRODUCED.

MOSCOW/FILI AIRFRAME PLANT NO. 23 WAS THE SOLE PRODUCER OF BISON (M-4) AIRCRAFT. DUE TO THE SHORT PLANT RUNWAY, (MOSCOW/FILI AIRFIELD) THE AIRCRAFT WERE EITHER FLOWN OR SHIPPED BY BARGE TO THE RAMENSKOYE FLIGHT

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TOP SECRET

GROUP 1
Excluded from automatic
downgrading and
declassification

TOP SECRET

24 November 1965

Page 2

TEST CENTER FOR FINAL CHECKOUT AND
DELIVERY TO THE SOVIET AIR FORCE.
PRODUCTION TOOK PLACE BETWEEN 1954-
1961 AND A TOTAL OF 150 AIRCRAFT
WERE ESTIMATED TO HAVE BEEN PRODUCED.
(KH-4 PHOTOGRAPHY)

4. MODIFICATION:

MAJOR MODIFICATION OF TAIL STRUC-
TURES AND WINGS AS WELL AS OVERHAUL
OF B-52'S IS CONDUCTED AT THE [REDACTED]

RAMENSKOYE FLIGHT TEST CENTER, MOS-
COW.
(KH-7 PHOTOGRAPHY)

5. DEPLOYMENT:

WRIGHT-PATTERSON AIR FORCE BASE,
OHIO. ALL MODELS OF THE B-52 ARE
ASSIGNED TO STRATEGIC AIR COMMAND
BASES.

UKRAINA AIRFIELD. ALL MODELS ARE
ASSIGNED ONLY TO THE SOVIET LONG
RANGE AIR FORCES.
(KH-7 PHOTOGRAPHY)

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TOP SECRET

TOP SECRET

24 November 1965

Page 3

6. FLIGHT TESTING:

EDWARDS AIR FORCE BASE, CALIFOR-
NIA.

RAMENSKOYE FLIGHT TEST CENTER, MOS-
COW.

(KH-7 PHOTOGRAPHY)

7. DESCRIPTION:

LENGTH	--	157	LENGTH	--	162
WING SPAN	--	185	WING SPAN	--	170
CRUISE ALTITUDE	--	20,000	CRUISE ALTITUDE	--	19,000
MAX. ALTITUDE	--	60,000 FT	MAX. ALTITUDE	--	45,000 FT
MAX. RANGE	--	12,500 NM	MAX. RANGE	--	6,000
SPEED	--	660 MPH	SPEED	--	600 MPH
ARMAMENT	--	MODELS G AND H	ARMAMENT	--	4 TURRETS WITH
		CARRIES TWO HOUND DOG ASM			DUAL 23 MM GUNS.
		AND QUAIL DIVERSIONARY MIS-			
		SILES. ALL MODELS ARE EQUIP-			
		ED WITH EITHER A SINGLE .5			
		IN. REAR MOUNT OR A QUAD 20			
		MM. REAR MOUNT.			
MAX. BOMBLOAD	--	20,000 LBS	MAX. BOMBLOAD	--	10,000 LBS

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TOP SECRET

TOP SECRET

24 November 1965

Page 4

8. PROPULSION:

EIGHT PRATT AND WHITNEY JT 3D (MILITARY DESIGNATION: TF33) TURBOFAN ENGINES DEVELOPED FROM THE J57 TURBOJET ENGINE. THE THRUST OF THIS ENGINE IS RATED AT 21,000 POUNDS STATIC THRUST. THE MAIN PRATT AND WHITNEY PRODUCTION PLANT IS LOCATED IN

FOUR RD-3M TURBOJET ENGINES DEVELOPED BY THE SPECIAL DESIGN BUREAU OF MIKULIN-TUMANSKIY-ZUBETS AT EXPERIMENTAL AIRCRAFT ENGINE PLANT NO. 300 IN MOSCOW. THE RD-3M IS PRODUCED AT THE KAZAN AIRCRAFT ENGINE PLANT NO. 16. BISON INITIALLY UTILIZED THE AM-3 TURBOJET ENGINE WHICH WAS QUALIFIED BY EARLY 1953, BUT THIS WAS LATER REPLACED BY THE RD-3M WHICH QUALIFIED IN 1955. THE ESTIMATED THRUST IS 19,800 LBS STATIC THRUST.

(KH-4 PHOTOGRAPHY)

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TOP SECRET