B-52G in Flight



Chopped tail fin, new wet wings, tail gunner up front, no ailerons

B-52G on Ramp (early version)



Has big radome in nose, bulging nacelles retained

B-52G (later version)



EVS retrofitted to nose underside: low-light TV plus FLIR

B-52G Climb Out



Big Fowler flaps down, G carried AGM-69A SRAM nuclear missiles ³³

B-52G Cockpit at Castle Air Museum



Twin EVS CRTs visible

Early B-52H on Ramp



Main upgrade over G was P&W TF33 turbofans

Pratt & Whitney TF-33 Turbofan Engine



Developed 17,000 lb thrust (dry), military version of civil JT3D

Early B-52H Tail Gun (later removed)



GE M61 6-barrel 20 mm cannon replaced 4 machine guns

B-52H in Flight



Camouflage paint job of 1980s, nose retrofitted with EVS

B-52H on Ramp



This bomber can carry an impressive array of ordnance

B-52H Front End Detail



Wrinkles and "stretch marks" demonstrate middle age of the BUFF 40

B-52H After Takeoff



Large Fowler flaps and folding landing gear are visible

B-52H Refueled by KC-10A Tanker



McDonnell-Douglas (Long Beach) built 60 KC-10A Extenders

B-52H Top View



The B-52 planform & large 4,000 sq. ft. swept wing are impressive ⁴³

B-52H on Alert at Minot AFB, ND (5th BW)



B-52s on ground alert with nukes had armed guards (until 1991)

Derivatives & Test Beds

- NB-52A/B/H (NASA test beds)
- RB-52B/C (convertible reconnaissance/bombers)
- JB-52B (nuclear weapons effects)
- JB-52C (ECM work)
- NB/JB-52D (dropped dummy nuclear weapons)
- NB/JB-52E (test bed/turbofan engines: XTF-39, JT-9D)
- NB-52E (stability & control test platform)
- GB-52B/D/E/F/G (various ground trainers)
- XB-52G ("A" test bed with reduced tail fin)
- JB-52G (special R&D duties)
- JB-52H (various cruise missile testers)
- YB-52H ("G" test bed with new TF-33 engines)

NASA's NB-52A (tail number 003)



Famous X-15 rocket plane is tucked under right wing

NB-52A at Pima Air Museum (Tucson, AZ)



The empty pylon for X-15A is evident

NASA NB-52B (tail # 008) Taking Off



Pegasus under wing is 3-stage launch vehicle for NEO satellites

NASA NB-52B Testing Shuttle Drag Chute



NB-52B was oldest and lowest-time B-52 flying, retired Dec. 2004 ⁴⁹

RB-52B on Ramp



Many B and C models were convertible to photo recon platforms ⁵⁰

Colorful NB-52E with Nose Boom



Used for stability and control tests

NASA NB-52H in Flight



Missions dropped, so NASA returned it to USAF

B-52 Combat Campaigns

- Southeast Asia (1965-1973: Arc Light, Bullet Shot, Linebacker I and II, etc.)
- Gulf War I (Operation Desert Storm, 1991)
- Iraq (Operation Desert Strike, 1996)
- Iraq (Operation Desert Fox, 1998)
- Yugoslavia (Operation Allied Force, 1999)
- Afghanistan (Operation Enduring Freedom, 2001-?)
- Gulf War II (Operation Iraqi Freedom, 2003)

B-52F Dropping Bombs Over SEA



F models pulled from Arc Light in favor of Big-Belly D models

B-52D Dropping McDonnell Quail Decoy



4 ADM-20s were carried in bomb bay to deceive enemy (1960-1978)⁵⁵

B-52G Dropping Boeing AGM-86 ALCM



Nuclear B models converted to conventional warhead Cs and Ds

B-52H at Diego Garcia, Indian Ocean (1996)



Originally thought to be landing, this H is taking off—nose down! ⁵⁷

B-52H Testing JDAMs



GPS satellite guided in all weather, JDAMs operational Sept. 1998 ⁵⁸

B-52H with Big JDAM Loading on Ramp



Probably a 2,000 lb GBU-31, CEP accuracy better than 13 meters 59

Summary of Conclusions

- Major contributor to U.S. national defense
- Meritorious combat history
- Exceptional ordnance flexibility
- Well respected by its many aircrews
- 1st & only U.S. aircraft to drop live H bomb
- Pioneered use of twin-spool P&W J57
- Has future as useful stand-off weapons platform (as for nuclear-tip cruise missiles), potential airborne electronic jammer
- Active fleet of 74 H models still in service
- Unequaled longevity: projected to 2040-2045 (up to 90 yr. of frontline combat jet service!)

Video: dramatic takeoff of B-52B from "Bombers B-52" (1957)

Filmed at Castle AFB in California, 1956

Starring: Karl Malden Natalie Wood Efrem Zimbalist Jr.

Automated Slide Show with Music

A soaring tribute to the B-52H

Produced by Lt. Col. Keith Snyder (B-52 Aircraft Commander)