



## Industry-Leading Long-Range Strike Aircraft Expertise in Action



L3 Link Training & Simulation is the prime contractor for the B-2 Training System, which provides both aircrew and maintenance training. In support of the program, L3 Link provides Contractor Logistics Support, long-term software support and operates the training system support center.

L3 Link also provides classroom and academic instruction, in addition to being responsible for follow-on concurrency between the training system and aircraft through 2017. The B-2 Training System supports the 394th Combat Training Squadron, which is part of the 509th Bomb Wing at Whiteman Air Force Base.

### **AIRCREW TRAINING COMBAT ENVIRONMENT**

B-2 aircrews are able to fly simulated missions literally anywhere around the globe against any contemporary mission environment. The B-2 aircrew training devices' electronic combat environment provides up to 12,000 threats per mission. This high-density environment can be built from a library of 800 entity types, including radar emitters, surface-to-air missiles, anti-aircraft and other aircraft. Of the 12,000 threats, up to 2,000 can be located in a 500,000-square mile mission area and 256 can be active within the radar horizon of the ownship aircraft.

The real-time threat environment is supported by an off-line threat database that includes location, operational tactics, networking, signal parameters, weapon characteristics and moving platform attributes.

### **WEAPONS SYSTEM TRAINERS**

Three full-motion, high-fidelity B-2 Weapon Systems Trainers support initial and continuation aircrew training, in addition to providing rehearsal training prior to actual combat mission being launched. Each weapon system trainer allows pilots to master complex onboard aircraft systems and become proficient in operating the aircraft and its weapon systems under simulated combat situations.

B-2 Weapon Systems Trainers use commercial off-the-shelf image generation and visual display systems to provide out-the-window imagery that exceeds FAA Level D standard for simulators. The weapon systems trainers' networking capability supports participation in the U.S. Air Force's Distributed Mission Operations exercises.



## **MISSION TRAINER**

The B-2 Mission Trainer is a high-fidelity simulator designed to teach the more complex right seat functions, such as radar operation and weapons delivery. This focused practice is important for the B-2's two-pilot crew, which has no independent weapon system officer. Importantly, the mission trainer can effectively train the senior pilot in mission commander skills without impacting weapon system trainer availability.

## **MAINTENANCE TRAINING**

Fifty-two training devices are used by maintainers, pilots and weapon load technicians to gain off-aircraft expertise in the diagnosis and repair of aircraft systems and weapons loading.

## **COMPUTERIZED MAINTENANCE TRAINING SYSTEMS**

The B-2 Computerized Maintenance Training Systems include a simulated flight crew station, hydraulics/fuels maintenance station, instructor station and student station. Maintainers can use these devices to master correct operational check, fault isolation, and corrective action procedures related to the B-2's glass cockpit displays.

## **WEAPONS SYSTEM TRAINING AIDS**

The B-2 Weapon Systems Training Aids are desktop trainers that are fully integrated with simulated aircraft functionality to provide a detailed training scenario. Crew members are able to train on aircraft systems and maintenance of operational check, fault isolation and corrective action procedures.

## **COCKPIT PROCEDURES TRAINER**

The B-2 Cockpit Procedures Trainer consists of a high-fidelity, full-scale cockpit and enables aircrews to hone their skills on aircraft systems operations and procedures.

## **WEAPONS LOADING TRAINER**

The B-2 Weapons Loading Trainer is a full-scale mock-up of the aircraft's undercarriage, weapons bay and cockpit. The B-2 WLT certifies personnel in uploading and downloading nuclear and conventional weapons onto the B-2.

## **FLIGHT CONTROLS SYSTEM TRAINER**

The B-2 Flight Controls System Trainer allows maintenance personnel to receive hands-on instruction and practice operational checks, fault detection, isolation, removal and replacement of simulated flight controls.

### **L3 Link Training & Simulation**

P.O Box 5328

Arlington, Texas 76005

Tel: 817.619.2000

Fax: 817.619.3777

[www.L3T.com/Link](http://www.L3T.com/Link)



**LINK**

***TRAINING & SIMULATION***

Cleared by DoD/OSR for public release under 10-S-2822 on 10 August 2010. Data, including specifications, contained within this document are summary in nature and subject to change at any time without notice at L3 Technologies' discretion. Call for latest revision. All brand names and product names referenced are trademarks, registered trademarks, or trade names of their respective holders.