

# Vital Link Hush House

## A/F37T-10/11 & Variants



Vital Link is the main supplier to the USAF and Air Forces overseas of the A/F37T-10/11 Hush House and Derivatives.

Originally designed in the 1970's the A/F37T-10/11 is the mainstay of the USAF for the ability to test both installed and uninstalled F-100 and F-110 engines. The facility design encompasses a range of fighter aircraft of the USAF including the F-5 and F-15. As an ISO 9001:2000 accredited company, Vital Link Inc. maintains the latest drawings and associated documentation revisions for the A/F37T-10/11 and all variants to insure configuration control for our customers.

Since 2003 Vital Link has updated the design and systems of the A/F37T-10/11 Hush House to improve aerodynamic and acoustical performance and reliability, maintainability and availability. These improvements have been incorporated into existing USAF Hush Houses and new variants derived from the A/F37T-10/11 provided to overseas customers in the Middle East and Asia.



[www.vitallinkinc.com](http://www.vitallinkinc.com)

[www.vitallinkltd.co.uk](http://www.vitallinkltd.co.uk)

# Vital Link Hush House

## A/F37T-10/11 & Variants

These improvements include:

- ❑ Revised Primary and Secondary Intake Baffle Systems – to allow for higher airflows and reduced cell depression to enable more powerful variants of the F-100, F-110 and F-119 engines and associated aircraft to be operated safely in the facility
- ❑ Revised Primary Intake Turning Vanes – providing stable airflow to the engine intake
- ❑ Upgraded Test Enclosure Materials – to reduce FOD potential
- ❑ Improved Camera and PA/Intercom Systems
- ❑ Revised Aircraft Door Systems: Door Seals – for improved acoustics forward of the facility. Door Drive System – for improved reliability and easier operation
- ❑ Upgraded Lighting and Electrical Distribution Systems
- ❑ New PLC Facility Control System
- ❑ New Exhaust Stack – improving the far field acoustics by 20 db(A) over the original design with higher performance engines
- ❑ New Patented Exhaust System Acoustical Kit (ESAK) for the Augmenter Tube and Ramp/Silencer Stack – removing the acoustic fill erosion and temperature problems experienced when operating the latest engine variants
- ❑ Updated Spares – VLI has reviewed and updated the spare parts required for facility maintenance needs and carries many of the long lead items for ex-stock supply to customers world-wide

VLI expertise in Design, Project Management, Manufacturing and Installation has been the key advantage for Hush House customers world-wide when procuring new facilities and up-dating or refurbishing existing units.



ISO 9001:2008

Vital Link, Inc.  
914 Bartlett Road Sealy TX 77474  
Tel (979) 885-4181 Fax (979) 885-3274  
Email [info@vitallinkinc.com](mailto:info@vitallinkinc.com)

Vital Link Europe Ltd.  
9 Stanhope Gate, Stanhope Road  
Camberley, Surrey GU15 3DW UK  
Tel +44 (0) 1276 401570  
Email [info@vitallinkltd.co.uk](mailto:info@vitallinkltd.co.uk)