

GBI Development and Integration Facilities



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Interceptor Integration Facility (IIF)

DSC Industry Day

- **Purpose: Integration and testing of EKV with Booster Avionics Module (BAM) to form Payload Avionics Module (PAM) for continued integration**
 - **Uses EKV and BAM supplied directly by vendors**
 - **For both tactical GBI and flight test GBI components; both two and three stage configurations**
 - **Conducts series of test procedures (such as Mission Sequence Test), followed by final shipment of PAM to designated Missile Assembly Building (MAB) at FGA or VAFB**



IIF Capabilities

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- **Equipment available in the IIF:**
 - **Flight EKV**
 - **Flight BAM**
 - **Booster Stack Emulator (BSE)**
 - **Command and Launch Equipment (CLE)**
 - **EKV Simulator**
- **Typical procedures run in IIF processing:**
 - **Payload Stand-alone test**
 - **BAM Stand-alone test**
 - **Bus redundancy test**
 - **PAM Mission Sequence Test**
 - **CLS Functional Tests**
 - **SIGI Runs**
 - **Optical Alignment**
 - **Launch Abort tests**



GBI Development and Integration Lab (GDIL)

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- **Purpose: System-level testing and verification of GBI components from Pre-launch through Intercept**
 - **Uses non-flight and inert hardware**
 - **For both tactical GBI and flight test GBI; both two and three stage configurations**
 - **Conducts test procedures (like Mission Sequence Test) and software verification**
- **Also used for Flight Test team training, and for Post Flight Test analysis**



GDIL Capabilities

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- **Equipment available in the GDIL:**
 - **Inert Booster GTM**
 - **BAM Ground Test Unit (GTU)**
 - **Payload Emulator**
 - **Command and Launch Equipment (CLE)**
 - **Non Tactical Equipment Consoles**
 - **Connectivity to SIV and Test Silo**
- **Typical procedures that can be run or checked out in the GDIL:**
 - **Battery Charging**
 - **Battery Reflex Cycle Charging**
 - **GSE Startup/Shutdown**
 - **Final Booster Systems Check**
 - **GSE Safe-to-Mate**
 - **Initial Booster Systems Check**
 - **Mission Sequence Test**
 - **NTE RF Power Up & TM Keyload**
 - **RF/FTS Systems Check**
 - **FTS End-to-End**
 - **GSE Safe-to-Mate**
 - **SIGI Initialization & Alignment**
 - **OBV Launch Countdown**



Interceptor Integration Flow

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