F-35 Program Status and Weapons Roadmap
Precision Strike Annual Review 2012

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## 2012 Objectives

### CTOL Flight Sciences
- LRIP 4 CCDD MVR Cleanup/LRIP 4i CCDD
  - Complete Fuel Dump Testing
- LRIP 3 CCDD MVR Cleanup
  - Complete Fuel Dump Testing
  - Complete Limited Symmetric Testing to Increase Mach from 0.90 to 0.95
- Initial Weapons Testing
  - Complete 1 GBU-31 and 1 AIM-120 Separation
- Complete Limited Initial Environment Testing
- Support 2B Fleet Release
- 2013-2016 Capabilities

### STOVL Flight Sciences
- Complete AAI Door Regression
- Begin KPP Perf Verification
  - VLBB and Cruise Performance
- Complete LRIP 4i CCDD
  - Complete Wet Runway
  - Complete STOVL ISR Propulsion System Regression
- Complete Initial Weapon Release
  - 1 GBU-12 & 1 GBU-32 Internal
- Begin AT-A/B & MS (BF-2,4 & 5)
  - Complete Initial AT-A Baseline
  - Complete LRIP 4i Maturity
- Support 2B Fleet Release
- 2013-2016 Capabilities

### CV Flight Sciences
- Complete LRIP 4i
- Complete E28 & MK-7 Roll-in Arrestments at Lakehurst
- Complete Initial AT-A Baseline
- Support 2B Fleet Release
- Complete Wet Runway
- Conduct Ship Suitability
- 2013-2016 Capabilities

### Mission Systems
- LRIP 4i Fleet Release
- Block 1 Clean-Up
- Block 2A (less LRIP 4i)
  - Basic Datalinks, Radar Mode Additions, Countermeasures, Fusion Updates, Wpn Captive Carry
- Block 2B
  - Adv Datalinks, Fusion Updates
- Complete AT-A Baselines for BF-17 & 18
Operational Program Milestones Alignment with LRIP Lots, Block SDLs, & Operational Testing

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<tbody>
<tr>
<td>OT-IIE OA</td>
<td>OUE F-35A</td>
<td>OUE F-35B</td>
<td>OUE F-35C</td>
<td>OT-IIF Dates TBD</td>
<td>OT-IIF Dates TBD</td>
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SGTO: Training Systems
Each Block, Each Variant

<table>
<thead>
<tr>
<th>LRIP Aircraft Deliveries</th>
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<tbody>
<tr>
<td>LRIP 1 &amp; 2</td>
</tr>
<tr>
<td>LRIP 3</td>
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<tr>
<td>LRIP 4</td>
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<tr>
<td>LRIP 5</td>
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<tr>
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<td>LRIP 7 w TR2</td>
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<td>LRIP 8 w TR2</td>
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<td>LRIP-9 w TR2</td>
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LRIP Limitations
Unless Retrofits

<table>
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<th>LRIP 1 &amp; 2</th>
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<tr>
<td>2B s/w Only</td>
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<td>2B s/w only</td>
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Legend:
Block 1A
Block 2B
Block 3I
Block 3F
Color denotes slated
Block SDL for capability

Initial Warfighting Capability
Block 2B & Block 3I

STOVL: 2 GBU-12, 2 GBU-32, 2 AMRAAM
CTOL: 2 GBU-12, 2 GBU-31, 2 AMRAAM
CV: 2 GBU-12, 2 GBU-31, 2 AMRAAM
All Internal Only

Initial Sim A/A & A/G Tng Training
Block 2A

Enhanced Simulated A/A & A/G Training
Block 2A

Full SDD Warfighting Capability
Block 3F
SDD Weapons
Internal & External

TR-2 Required
& 3F s/w

TR-2 Required
& 3F s/w
Block 2

- Only the F-35B is on contract to have weapons integrated in Block 2.
- As part of the program baseline review, we are trying to shift some weapons integration forward to reduce program risk.

Block 3

- Investigating possibility of adding Frangible Armor Piercing (FAP) combat round.
F-35B Weapons Integration Plan

Block 2
- GBU-32 JDAM 1,000-lb (MK-83/BLU-110 Warhead)
- GBU-12 Paveway II 500-lb LGB (MK-82 Warhead)
- 2 -AIM-120C AMRAAM

Block 3
- AIM-9X Sidewinder
- GBU-12 Paveway II 500-lb LGB (MK-82 Warhead)
- 4 -AIM-120C AMRAAM

Missionized Gun

- Investigating possibility of adding PGU-32 combat round
F-35C Weapons Integration Plan

**Block 2**

- **EXTERNAL WEAPONS**
  - GBU-31 JDAM 2,000-lb (BLU-109 Warhead)
  - GBU-12 Paveway II 500-lb LGB (MK-82 Warhead)
  - 2-AIM-120C AMRAAM

**INTERNAL**

- 2-AIM-120C AMRAAM

**EXTERNAL WEAPONS**

**Block 3**

- **EXTERNAL WEAPONS**
  - AIM-9X Sidewinder
  - GBU-12 Paveway II 500-lb LGB (MK-82 Warhead)
  - GBU-31 JDAM 2,000-lb (MK-84 Warhead)
  - AGM-154A/C JSOW Glide Bomb
  - 4-AIM-120C AMRAAM

- **INTERNAL**
  - GBU-32 JDAM 1,000-lb (MK-83/BLU-110 Warhead)
  - Paveway IV

- **UK Unique Weapons**
  - AIM-132 ASRAAM

- Missionized Gun

- Investigating possibility of adding PGU-32 combat round
Block 4 Candidate Weapons

Small Diameter Bomb, Increment II (SDB-II)

Joint Stand-Off Weapon (JSOW) C-1

Norwegian Joint Strike Missile (JSM)

Turkish Stand-Off Missile (SOM)

AIM-9X Block II

Additional Combat Rounds

Additional dual-mode bombs, such as Laser-JDAM
Weapons Stations

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<th>Station</th>
<th>11</th>
<th>10</th>
<th>9</th>
<th>8</th>
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<td>350</td>
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Over 18K lbs Of Payload Capability
Questions?