



Air Armament Symposium

5 October 2011

Col Tim Morris, USAF

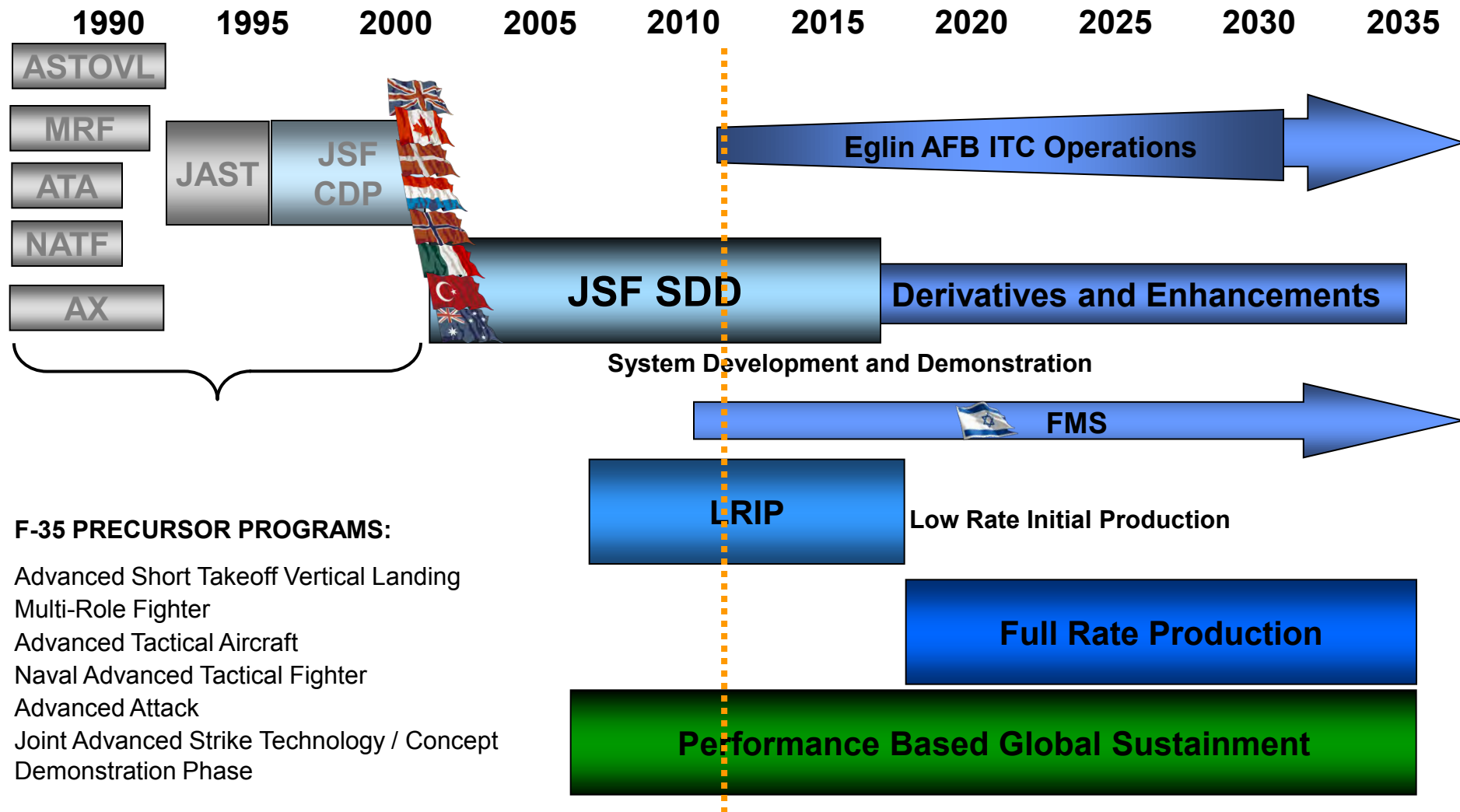
Director of Development

F-35 Lightning II Program



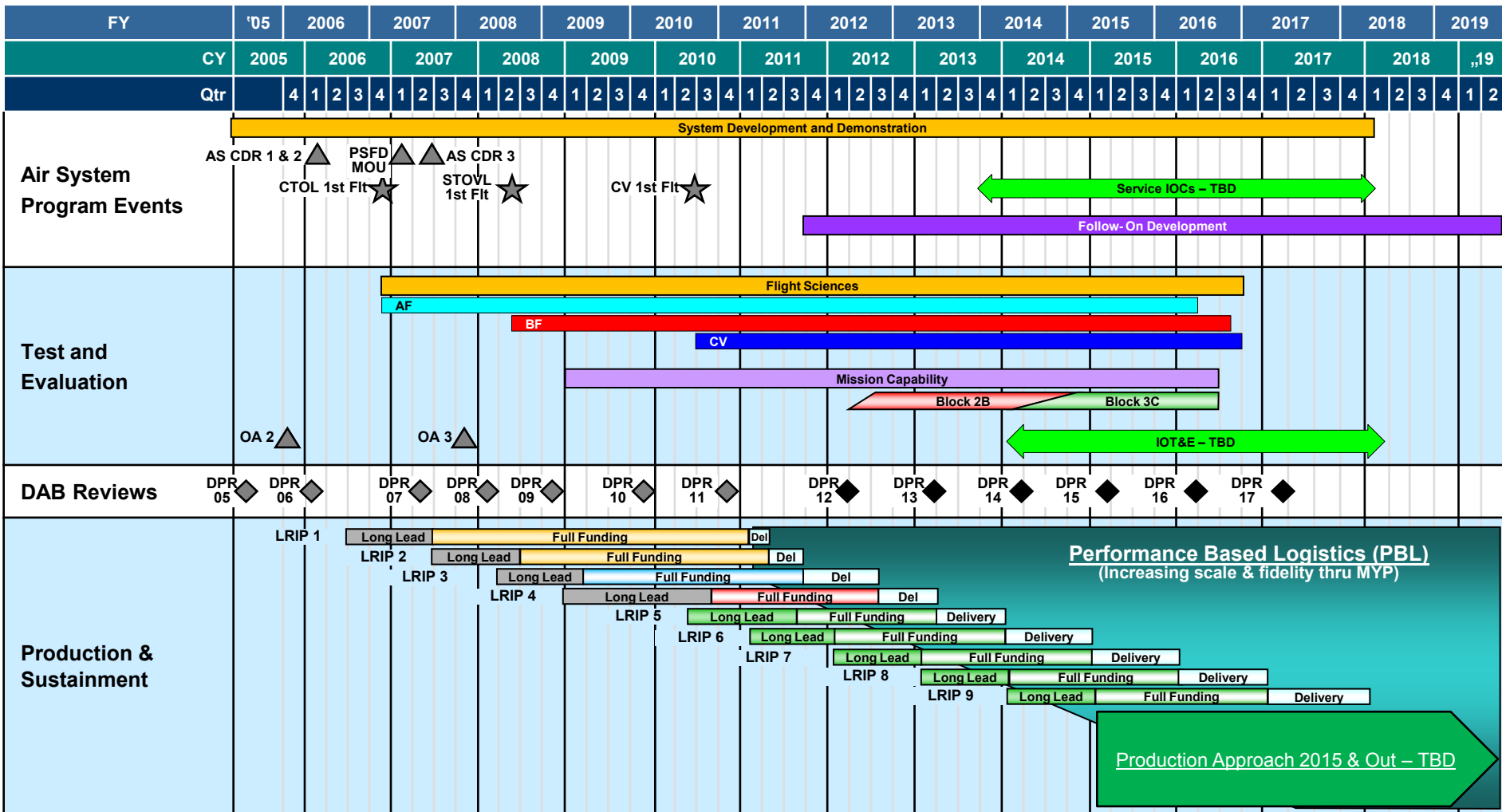


F-35 Program At Nexus of Planned Concurrency





Top Level Schedule





Expanding the Lightning II Fleet

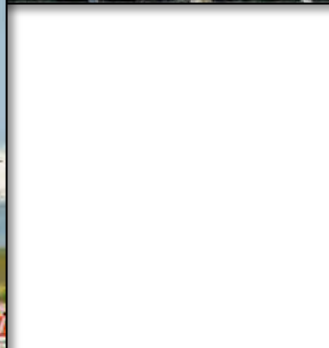


- 12 Developmental Test Aircraft at Pax / Edwards
- 6 Production Jets Fielded at Eglin / Edwards
- 1170 Flights / 1812.6 Hours

As of 30 Sept 11



Aircraft at Eglin: Preparing for Flight Training Operations



- **AF-9 & AF-8 Arrived 14 & 20 July 2011**
- **AF-10 & AF-11 Arrived 31 Aug 2011**
- **AF-12 & 13 Deliver in Next Few Weeks**
- **Operational Utility Eval. Planned this Year**



SDD Test Progress

- **F-35A: 533 flights / 982.9 flight hours** (as of 30 Sept 11)
 - Focus: Envelope expansion, Aerial Refueling, Weapons Bay open testing, supersonic
 - AF-6 / AF-7 completed “Maturity” flights
- **F-35B: 500 flights / 623.9 flight hours** (as of 30 Sep 11)
 - Focus: Envelope expansion, Sea Trial prep
 - LHD WASP trials began 3 Oct 11
- **F-35C: 137 flights / 205.8 flight hours** (as of 30 Sep 11)
 - Focus: Envelope expansion, Ship suitability at NAES Lakehurst
 - Completed Jet Blast Deflector and 29 of 68 catapult test points
 - Arresting hook testing underway
- **Mission Systems**
 - Maturity flights for Block 1 initial training release
 - Block 1B (multi-level security) in flight test
 - Block 2A release to CATB this month; F-35 DT this year





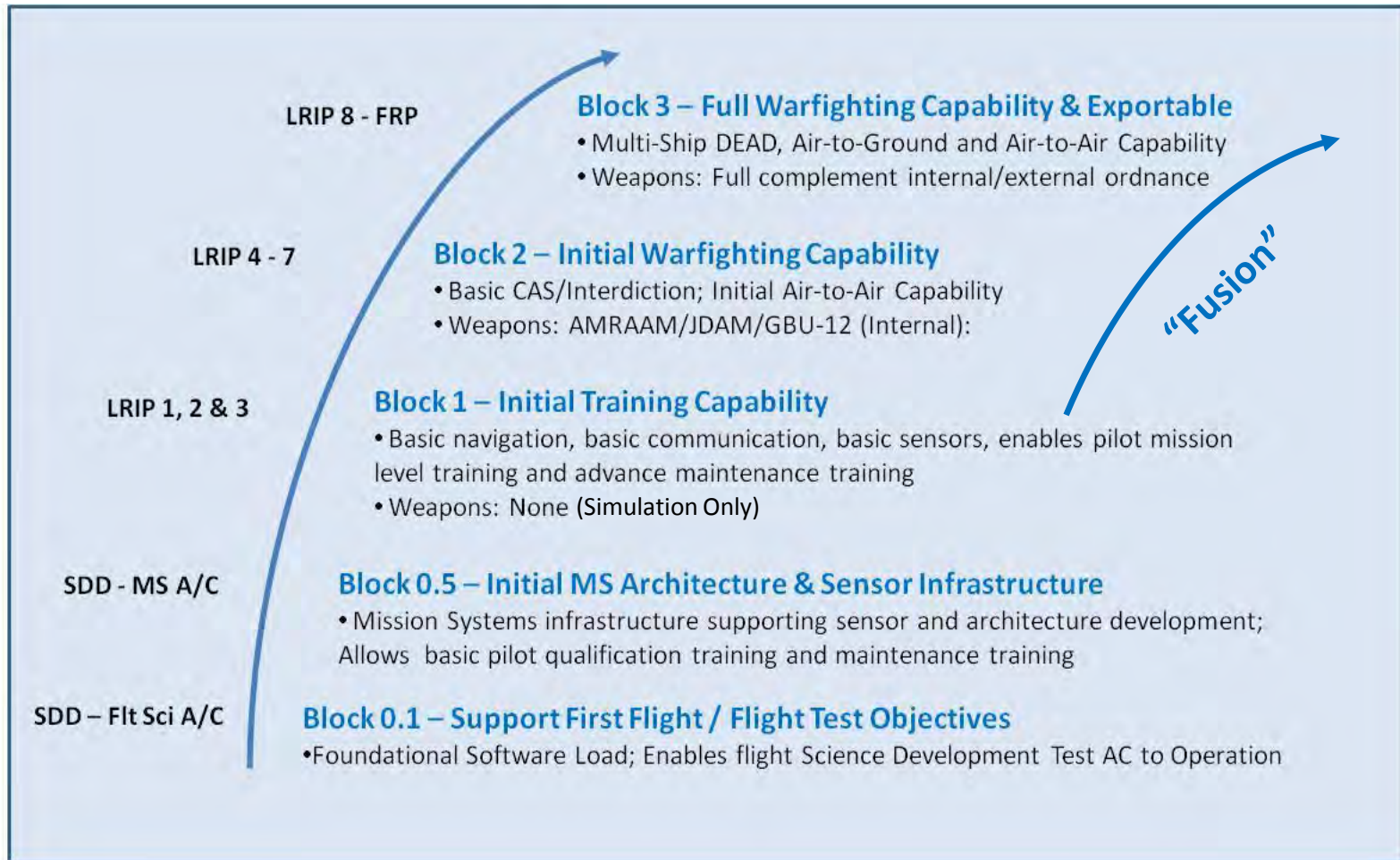
Video of First LHD Landing Shown



DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



SDD Software Roadmap



Fleet Software Releases Aligned to LRIP Deliveries



Weapons Carriage Requirements





Weapons Carriage Requirements



Store Certified During SDD

1,000-lb

y II 500-lb LGB

GBU-10 Paveway II 2,000-lb LGB

GBU-24A/B Paveway III 2,000-lb LGB

GBU-16 B... 4,000-lb LGB



BF-1, 1000lb JDAM, AMRAAM



GBU-38 JDAM 500-lb

AIM-9X Sidewinder

AIM-120C AMRAAM

BDU-57/58/60 Laser-Guided Training Round

Weapons Currently

Brimstone/Joint Air-Ground Missile MK-76/MK-58/BDU-48



Missionized Gun



UK Paveway 4



F-35 Comprehensive LFT Program

- **Congressionally Mandated Full-up System Level Testing**
 - Validate Vulnerability Design
 - Super High Velocity Airflow System (S-HiVAS) up to 380 KTAS
 - Running Engine with dynamic loads on control surfaces
 - Capture Unintended System Effects





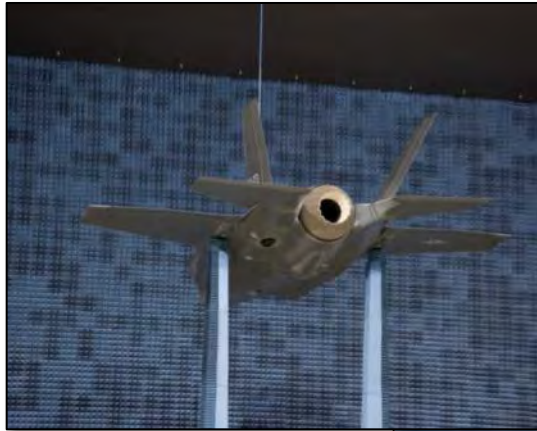
Video of LFT Shown



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Radar Cross-Section Testing



Early Signature Results Very Promising



Summary

- **Program “Reset” Making Good Progress**
- **Flight Test and Production Results Helping to Build Confidence in the New Baseline Plan**
 - Production operations stabilizing and maturing
 - DT demonstrating a generally robust weapon system design
 - Software and Mission Avionics reflecting stable performance
- **Program Building Momentum . . . But a Long Way to Go to Deliver the Full Expected Capability**

Questions

