



The Affordable Solution - JSF

Brigadier General Leslie Kenne, USAF Director, Joint Strike Fighter Program Office

Designing The Next Generation Strike Fighter





VISION

BE THE MODEL ACQUISITION PROGRAM FOR JOINT SERVICE AND INTERNATIONAL COOPERATION

DEVELOP AND PRODUCE AN AFFORDABLE NEXT GENERATION STRIKE FIGHTER WEAPON SYSTEM AND SUSTAIN IT WORLDWIDE

Designing The Next Generation Strike Fighter



TACTICAL AIRCRAFT AFFORDABILITY OBJECTIVE





Affordability

Cost Objectives Shall Be Set To Balance Mission Needs With Projected Out-Year Resources, Taking Into Account Anticipated Process Improvements In Both DOD And Defense Industries.



JSF PROGRAM SCHEDULE



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We Are Here



ROADMAP TO THE JORD



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'LIVING COPT' JIRD/COPT II JIRD/COPT I **JIRD/COPT III JIRD/COPT IV** ORD MS I AOA (01) (95) (97) (98) (99) (00)**AFFORDABILITY AFFORDABILITY AFFORDABILITY AFFORDABILITY** RCS SHIPBOARD COMP LOG FOOTPRINT / SGR LOW VISUAL SIG SPEED MANPOWER MANPOWER HARDENING MANEUVERABILITY TARGET ACQUISITION R&M BDA PAYLOAD ACCURACY SUPPORTABLE LO WEAPONS CARRIAGE VERSATILITY SGR **IDENTIFY TARGET ENGINE R&I** LOW ACOUSTIC SIGNATURE LOG "FOOTPRINT" IR SIG **ADVERSE WEATHER/NIGHT** MAINTAINABILITY COMMONALITY MANEUVERABILITY MULTI-ROLE CAPABILITY RANGE **PASS/RECEIVE TIMELY INFO MISSION PLANNING** PAYLOAD **MISSION FLEXIBILITY OPERATIONAL AVAILABILITY ACCURATE NAV** RCS COUNTERMEASURES **RCS V ECM INTEROPERABILITY RCS V SUPPORTABILITY** SYSTEM REDUNDANCY SGR **BASING FLEX./CARRIER SUIT.** Analysis Developed by Integrated Source of **Team of Warfighters** Selection Alternatives and Developers LEGACY FORCE F-16, F-18C/D, AV-8B



COST AS INDEPENDENT VARIABLE (CAIV) **DEFINING AFFORDABLE REQUIREMENTS**

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Standardized Models, Scenarios & Threats

Attribute Trade Studies

Weapon Sys Level Trade



SYNERGISTIC JSF REQUIREMENTS







THE BOTTOM LINE







KEY TECHNOLOGY MATURATION PROGRAMS

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CONCEPT DEMONSTRATION PHILOSOPHY



- Two Teams Designations Assigned
 - Boeing X-32A, B, C*
 - Lockheed Martin X-35A, B, C



- Two Aircraft Per Team Sufficiently Representing The PWSC to Satisfy Demonstration Objectives
 - Commonality/Modularity for an Affordable Family of Multi-Service Variants
 - Successful Short Takeoff, Vertical Landing, Hover and Transition
 - Satisfactory Low Speed Carrier Approach Flying and Handling Qualities









USAF CTOL







(Z









USMC STOVL

UK RN STOVL





LOCKHEED MARTIN



USAF CTOL





USN CV





USMC STOVL

UK RN STOVL

MULTI-SERVICE PWSC DESIGN CONCEPT

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ACQUISITION REFORM

COST as an INDEPENDENT VARIABLE (CAIV)

– JIRD PROCESS W / INDUSTRY AND WARFIGHTERS – COST-PERFORMANCE TRADES

COMMON COST MODEL

- JOINT COMMON COST MODEL (JCCM) DEVELOPED
- COST ESTIMATES DEVELOPED BY JOINT INDUSTRY/GOV'T TEAM

CONCEPT DEMONSTRATION PROGRAM PHILOSOPHY

- DEMO ONLY WHAT'S NEEDED
- STATEMENT OF OBJECTIVES VS. STATEMENT OF WORK
- MINIMUM FORMAL DOCUMENTATION
- INSIGHT VS. OVERSIGHT
- ON-LINE MANAGEMENT INFORMATION SYSTEMS
- COOPERATIVE ATMOSPHERE

ACQUISITION STREAMLINING

USE OF THE WORLD WIDE WEB

1010

www.jast.mil

- GENERAL PROGRAM
 INFORMATION
- ANNOUNCEMENTS (e.g., PROCUREMENTS, AWARDS)
- BRIEFINGS
- DISSEMINATE SPECIAL INFORMATION (e.g., NEWSLETTERS, MASTER PLAN)

JOINT STRIKE

FIGHTER

JSF CHALLENGE AFFORDABLY MEET THE REQUIREMENTS OF THE WARFIGHTER

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