

# ***Direct Attack SPO***

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*Integrity - Service - Excellence*



***Fuze Programs  
(DSU-33 & JPF)***

***Direct Attack SPO  
Eglin AFB***

# ***Direct Attack SPO***

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***DSU-33 Proximity Sensor***



# DSU-33B/B Description



Direct Attack SPO

- Joint ACAT III program
- System Description:
  - Radar Proximity Sensor
  - Provides Height of Burst (HOB) fire pulse signal to the fuze for JDAM and GP bombs (FMU-139 & FMU-152A/B Fuzes)
- Performance Parameters:
  - Height of Burst: 5-35ft (80%)
  - Multiple Weapon Release: 2 or more
  - Operational Life (“B/B”): 200 seconds
- Program Info:
  - Phase – Full Rate Production (AF, Navy & FMS)
    - To date: ~ 37,000 DSU-33 sensors built (2 contracts)
    - On Contract: currently 48,000
    - FMS: 2 cases on contract w/ several pending
  - Contract Type – FFP
  - Contractor - Alliant Ordnance & Ground Systems, Janesville, WI





# DSU-33 Status



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- **Full Rate Production – Alliant Techsystems (ATK) prime contractor**
  - 1400 to 2000/month
  - Production through March 06
- **Current Contract – Basic contract w/ 5 options (each 12k) = 72,000 qty limit**
- **Presently through Option 3 w/ 48,000 sensors on contract; 24,000 remaining**
- **Options 4 & 5 exercised ~ Dec 04**
- **VECP (DSU-33 C/B if approved) – Production cut-in Feb 05**
  - Obsolete parts
  - Reduced costs
  - Improved producibility



# Future Program Status



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- **New Full & Open Competition in late FY05 - FY06 contract award**
  - Flexible, multi-year contract
  - Funding through FY09
  - Approximately 87,000 sensors
  - Build to Performance Specification and ICD
  
- **Transfer Program to OO-ALC/WMG**
  - Increment 1 Current Contract/sustainment: 30 June 05
  - Increment 2 New Contract
    - 30 Dec 05 (no requal)
    - 30 June 06 (requal)

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***Joint Programmable Fuze  
(FMU-152A/B)***

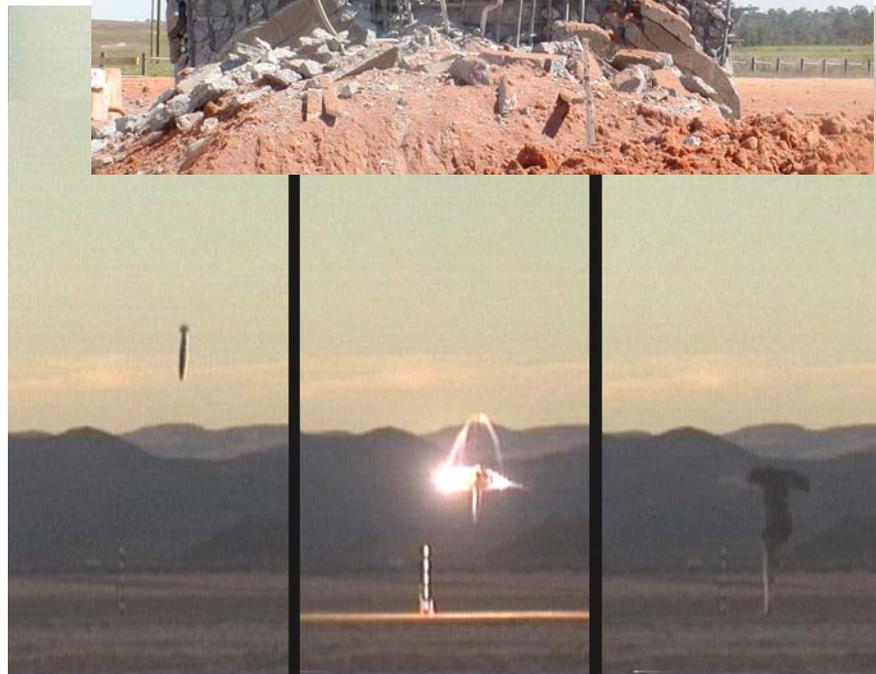


# Agenda



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- **FAAT IV Results**
- **Road to RAA**
- **Reliability Incentive**
- **Long Term Schedule**





# USAF FAAT IV Test Matrix



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- **Eglin AFB: 4 F-16 and 2 A-10 missions**

- 12 Fuzes @ Low/Medium Altitude
  - 2 MK-84 / 2 MK-82 High Drag Bombs
  - 2 MK-84 / 2 MK-82 Low Drag Bombs
  - 2 GBU-31(V)1 JDAMs
  - 2 GBU-31(V)3 JDAMs



- **UTTR: 2 B-52H missions**

- 8 GBU-31(V)1 JDAMs
- 10 GBU-31(V)3 JDAMs



- **China Lake: 3 F-16 missions**

- 6 GBU-38 JDAMs



- **9 Eglin Test Range Static Detonations**

- **Sled Testing: 5 fuzes tested on BLU-109/113**



# Good Results



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## F-16 JDAM Joint Programmable Fuze

16-18 March 2004



# Good Results



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**BLU-109**



**BLU-113**



# FAAT IV Final Results



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	Planned	Executed	Success	Failure	Comments
Contractor FAAT	36	36	33	3	
Flight Tests	36	36	33	1	2 No-test
Sled tests	5	5	4	1	
Static Arena	9	9	9	0	
<b>Totals</b>	<b>86</b>	<b>86</b>	<b>79</b>	<b>5</b>	

- **94.1% Reliability Point Estimate**



# Near Term Plan



*Direct Attack SPO*

- **Passed FAAT IV**
  - Still have some Manufacturing Concerns
  - RAA Planned for B-2 / GBU-31 @ Whiteman AFB in Jun 04
- **AF Strategy**
  - Enter Production – Grow Reliability with Production Experience
  - Reliability Demonstration – Establish Thresholds/Objectives
  - Incentivize Reliability



# Reliability Incentives



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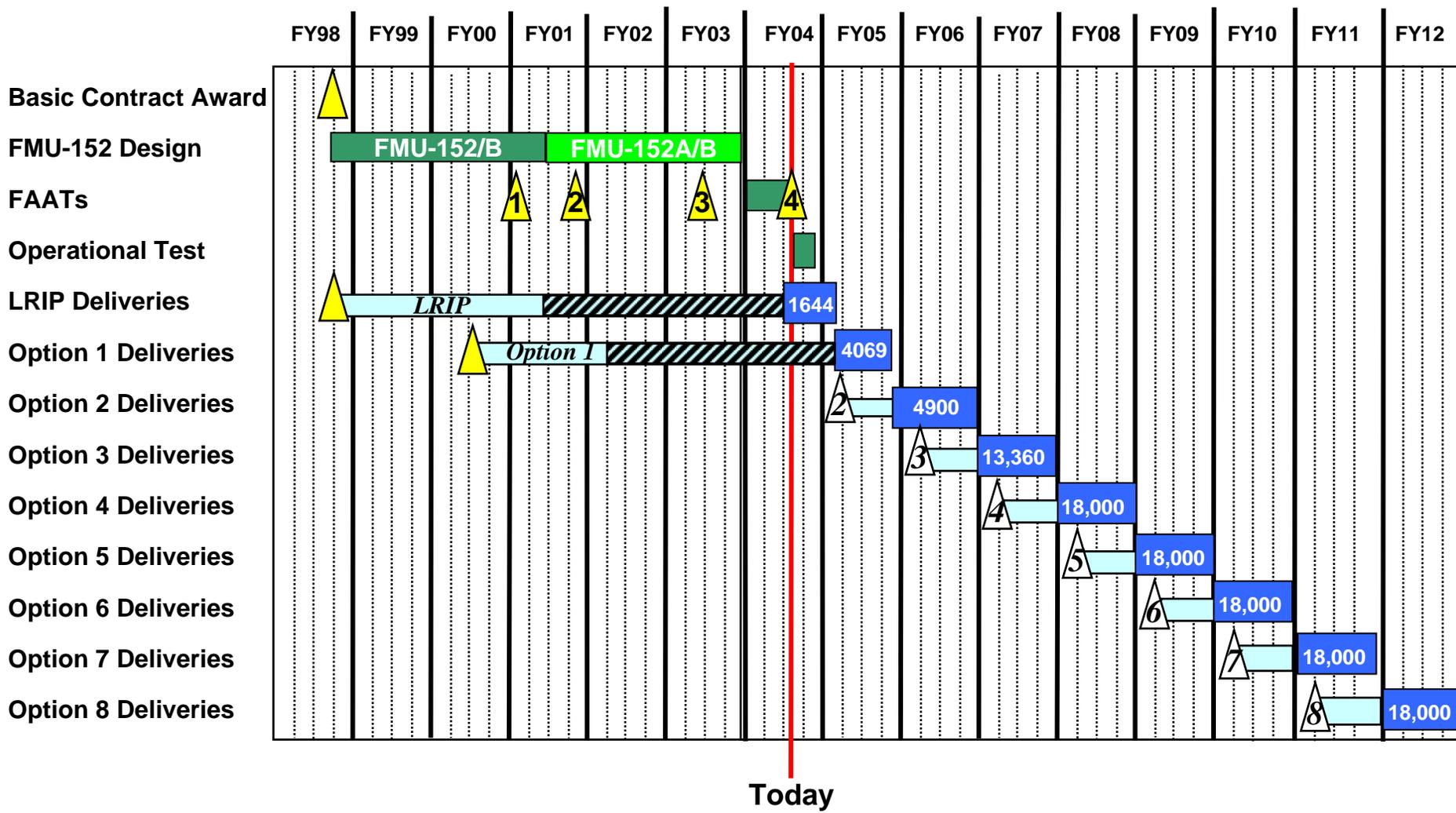
- **Options 2 – 8 Awards**
  - Designed to incentivize to reach 98% Reliability
- **Incentives not awarded, turned back into fuzes**
- **Total Incentive Funds throughout Program**
- **3% Reliability gained (95%→98%) – 3,361 less duds**
  - Average \$1983/fuze equates to \$6.664M
  - 3,361 JDAMs x \$22K/kit = \$74M
  - Other: Sortie Re-fly, Bomb body etc..



# Joint Programmable Fuze Current Schedule



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Today



# Summary



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- **JPF Passed FAAT IV! -- Field on B-2A/GBU-31**
  - **Projected RAA: Jun 04 @ Whiteman AFB**

F/WCMD #2  
RND#1

078:02:56:55.1187  
F-16 JPF JDAM 3/17/04

Ver. 2.11

9600 Blvd

*Any Questions?*

