

Joint Biological Standoff Detection System (JBSDS)
Overview

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The Urgency is There!

- **CINC CB Defense Priority List (FY01):**
 - Five CINCs want an interim biological standoff capability.
 - Three of the five CINCs listed it as their #1 CB Defense priority.
- JBSDS Program is #1 ranked program on the FY01 and **FY02 Joint NBC Defense Joint Priority Lists.**
- Biological Early Warning is #2 on the Joint Major JFOCs.
- Joint Staff Statement of Urgency for JBSDS



JBSDS ORD

- JBSDS Draft ORD, J2B002-I, 8 Feb 2002
- JBSDS ORD Schedule:
 - Stage I Assessment #A1-0568, 4 January 2002
 - 01 April 2002: MC Concurrence and Approval
 - 13 May 2002: AF Concurrence and Approval
 - Stage II Assessment # A2-0403, 29 October 2002
 - AFROC Approval 16 Jan 2003
- Acquisition Objectives:

	Block I	Block II
Army	6	1003
Marines	0	235
Air Force	8	87
Navy	0	327



Requirements

* = Key Performance Parameter	Objective	Threshold
Detect aerosol clouds consistent with a BW release above naturally occurring backgrounds during night conditions and sufficient line-of-sight*	500 ACPLA at ranges up to 15 km with 95% probability	1,000 ACPLA at ranges up to 5 km with 90% probability
Detect aerosol clouds and discriminate clouds w/particles of biological origin during night conditions and sufficient line-of-sight*	100 ACPLA at ranges up to 3 km with 95% probability	1,000 ACPLA at ranges up to 1 km with 90% probability
Detect, Track, and Discriminate aerosol clouds	While in motion on UAVs and UGVs	While in motion on ground vehicles, fixed/rotary wing aircraft, and ships
Mean Time Between False Alarms (MTBFA) per each system	>168 hours	≥168 hours
Weight	≤30 kg	≤112 kg
Operational Safety	Eye and skin safe at all ranges	Eye and skin safe at all ranges
Operating Temperature	-32°C to +49°C	-12°C to +49°C



Acquisition Schedule Next Generation (Block II)

JBSDS	Dates
Concept Exploration	May 03 - Sep 03
Component Advanced Development	Oct 03 – Sep 04
Milestone B (Begin Development)	Oct 04
Sys Dev & Demo Solicitation / Contract Award / SOW	Oct 04 – Mar 05
System Development and Demonstration	Apr 05 – Mar 07
Critical Design Review	Feb 06
DT/OT	Sep 05 – Jun 06
EOA	Apr 06 – Jun 06
Milestone C (Commitment – Enter LRIP)	Apr 07
LRIP	Apr 07 – Mar 08
Production Verification Test (PVT) Complete	Mar 08 - Sep 08
IOT&E	Sep 08 – Oct 08
Full Rate Production IPR	Feb 09
Production	Mar 09 – Nov 13
First Unit Equipped (FUE)	Sep 09

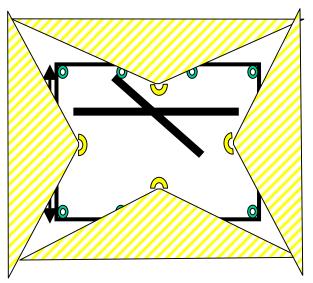


JBSDS Employment

Ground, Mobile Platform



Fixed Site





IR LIDAR Cloud Detection & Tracking (15 km)
UV LIDAR Generic Discrimination (Bio vs Non-Bio) (3 km)
Early Warning Communications
Command & Control Nodes

