BRASHEAR LP

Small Arms Fire Control System II Overview

NDIA 2002 International Infantry & Small Arms Symposium

Brashear LP
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Vision/Introduction

- ***It is our vision to provide to the American Fighting Force the finest combat systems available to defeat the enemy with nothing less than complete success for the soldier on the battle field.***
- Brashear LP (BLP) is a small, lean and technologically powerful company committed to the development and fielding of superior small arms fire control systems.
- The leader in Individual & Crew Served (I&CS) Small Arms Fire Control programs for the past ten years, BLP has accumulated more experience in this product area than any other company.

SAFCS II Program

- Next fire control system development program under the Office of the Program Manager for Small Arms (OPMSA), Picatinny Arsenal, NJ
- Contract was awarded to Brashear LP on 10 September 2001
  - Contract number: DAAE20-01-C-0123
  - Performance based specification
- Provides an improved fire control system for Mk19 Mod 3 GMG
- Delivery of 20 units for type classification starting November 2003
- Type classification in 2004
- Production options available for 1750 units

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Key Features

- Class 1 eye safe solid state laser range finder
- High resolution video day sight
- Internal Un-cooled thermal imager night sight
- Programmable ballistics computer
- Remote operation capability
- Multiple display options (Land Warrior interface)
- Fuse setting for air burst munitions
- Environmental sensor suite
- Optional power sources (battery or vehicle power)
- Designed for rugged military use per MIL-STD 810 and MIL-STD 461

Readily adaptable for multiple crew-served weapons and applications

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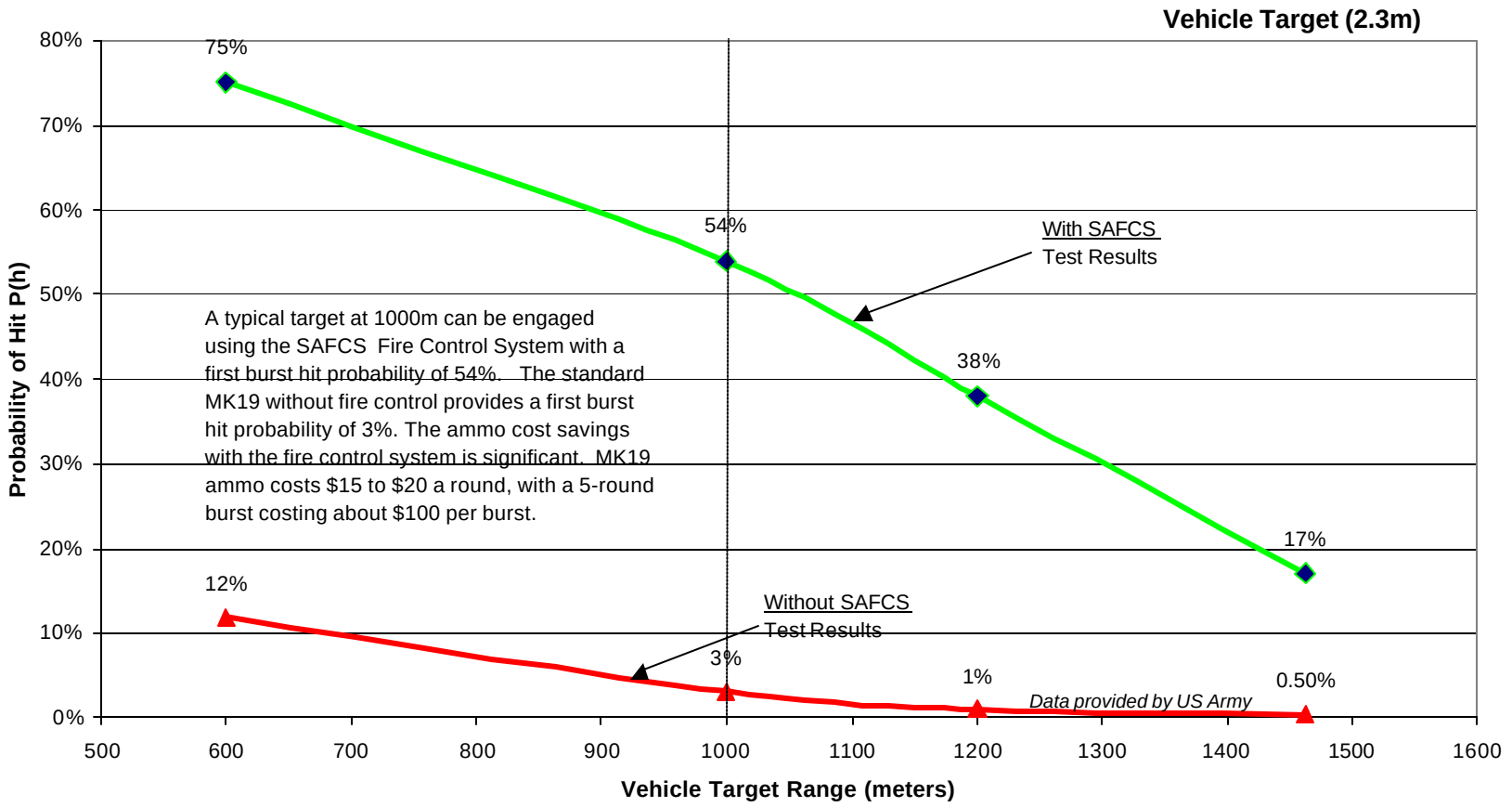
MK19 First Burst Probability of Hit Results
Small Arms Fire Control System (SAFCS)



Demonstrated Vastly Improved First Burst Probability of Hit at 1000 meters

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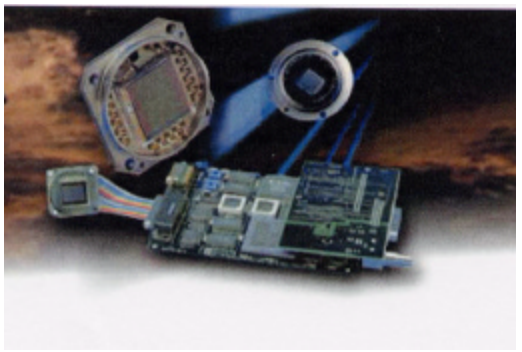
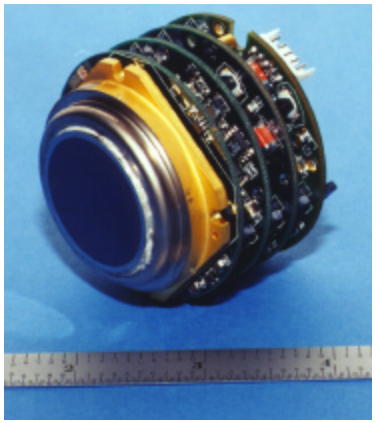
Cutting Edge Thermal Technology

- SAFCS II Night Sight Key Features
  - 320 x 240 25μm pixel uncooled microbolometer
  - 8 to 12 μm spectral band responsivity
  - 50mK or better sensitivity
  - F/1.3
  - 5° diagonal FOV
  - 114 mm effective focal length



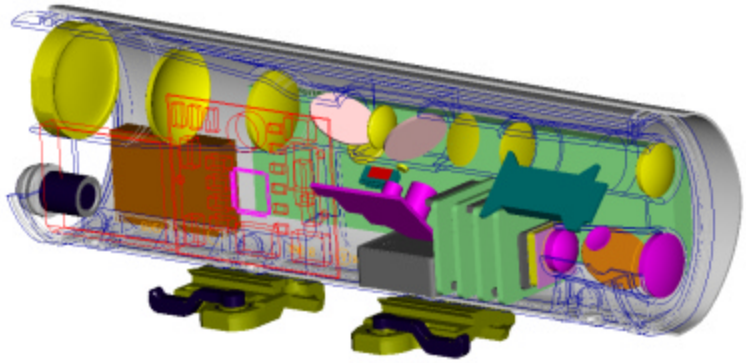
- Range discrimination performance
  - Recognition of a vehicle-sized target at 2000 m
- Benefits of small format microbolometer
  - Smaller IR optics
  - Lower weight
  - Lower power consumption
  - Lower cost due to both commercial and military applications



An unrivaled capability to dominate the 21st Century Battlefield

Synergy with OICW TA/FCS

• Technology insertion from OICW TA/FCS reduces SAFCS II program risk
  - •Thermal
  - •Laser range finder
  - •Displays
  - •Housing materials
  - •Electronics
  - •Ergonomics
- •Commonality with OICW TA/FCS reduces acquisition and support costs



SAFCS II Will Leverage on Common Design Philosophy to OICW TA/FCS

Summary

- SAFCS II is a successful Fire Control Program led by PM Small Arms
- Program is moving towards unit production and completion of development testing required for type classification
- Technology insertion from the OICW program reduces technical risk
- When deployed the pay-off will be:
  - Increased firepower and lethality
  - Increased gun crew survivability
  - Greatly reduced ammunition costs
  - Increased capability Day or Night
  - Ready use for multiple crew served weapons and remote operation