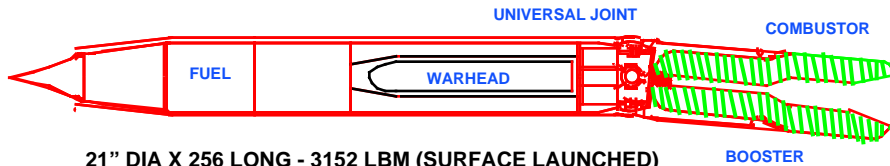




LOW COST MISSILE SYSTEM (LCMS) “FASTHAWK”



21" DIA X 256 LONG - 3152 LBM (SURFACE LAUNCHED)
21" DIA X 168" LONG - 1980 LBM (AIR LAUNCHED)

MISSION APPLICATION (S)

- STRIKE WARFARE for
 - TIME URGENT TARGETS
 - HARDENED TARGETS
 - DEEPLY BURIED TARGETS
- SUPERSONIC TARGET

OPERATIONAL CAPABILITIES

- MACH 4 TO 6, 700+ NMI RANGE W/ 700 LB PAYLOAD
- PENETRATING OR TLAM BLAST FRAG W/H (40 FT CONCRETE OR 130 FT EARTH)
- VLS OR AIR LAUNCHED
- LOW RCS
- LOW COST GOAL < \$250k/unit

PROGRAMMATIC

- NAVY #1 ATD FY-97 START W/ FLIGHTS IN FY99
- SPONSORS - N864 CAPT. Army / N86 RADM Murphey
- TRANSITION - TOMAHAWK BLK V - CAPT. Johnson / Ed Anderson (FASTHAWK being inserted into 00 POM)
- POC - NAWCWPN S.LYDA 619-939-7395, Rick BOSS 760-9398238

STATUS

- NAPDD & EXECUTION PLAN APPROVED
- LCMS ATD FULLY FUNDED DUE TO HIGH PRIORITY
- PROGRAM COMPLETED PDR IN 6/97, ON BUDGET AND SCHEDULE FOR CDR 11/97
- TECHNOLOGY MATURING IN AREAS OF PROPULSION, GPS ANTENNA, FMS

Naval Air Warfare Center - China Lake



LCMS "FASTHAWK" TECHNICAL

BACKGROUND

- STARTED IN FY-88 @ NAWCWPNSCL
- FUNDED BY ONR - DAVE SEIGEL
- FUNDING DISCONTINUED IN FY93 WHEN PRECISION STRIKE POM WAS ZEROED.
- RESTRUCTURED AS CHEAP SHOT ATD IN FY95

TECHNICAL ASPECTS

- NO WINGS OR FINS - TVC AHEAD OF PROPULSION (REDUCES COMPLEXITY & COST)
- AXISYMETRIC NOSE INLET (SR-71) PROVIDES REDUCED DRAG
- RAMJET PROPULSION WITH TANDEM BOOSTER (INCREASED ISP, RANGE; REDUCED DRAG, COST)
- GPS ONLY GUIDANCE
- LOW RCS

ID	Task Name	Duration	Start	1997				1998				1999								
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3					
1	Milestones	782d	Tue 10/1/96																	
2	PROGRAM REVIEWS	0d	Tue 10/1/96			PDR 4/30			CDR 11/1			FRR 7/13							EOP 9/29	
11	Systems / Mission Analysis & Eng.	750d	Tue 10/1/96	[Timeline bar from 10/1/96 to 9/29/98]																
41	Msl Component Dsn, Fab	570d	Tue 10/1/96	[Timeline bar from 10/1/96 to 10/8/98]																
183	FLT Subsystems D,E&T	574d	Tue 11/1/96	[Timeline bar from 11/1/96 to 3/1/99]																
246	Subsystem Ground Testing	30d	Thu 10/8/98	[Timeline bar from 10/8/98 to 3/1/99]																
248	Msl Flight Tests	290d	Thu 3/3/99	[Timeline bar from 3/3/99 to 6/1/99]																

SUMMARY

- **MISSION REQUIREMENT** (Responsive to 5 MNS, ONR Studies, "Most Wanted" list DUSD(AT))
- **STRONG PROGRAM TRANSITION**
- **HIGH TECHNOLOGY RISK**
- **TECHNICALLY SUPERIOR** (MACH 4 TO MACH6, RANGE >700 NMI, TIME TO TARGET)
- **LOW COST**
- **MULTI PLATFORMS**
- **MULTIPLE MISSIONS**
- **MULTISERVICE**