

INFORMATION PAPER

ON

F-15 JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS)

1. Background. The JHMCS provides capability for to achieve first look, first shot weapons employment advantage in the air-to-air within visual range (WVR) combat arena. This state of the art system provides the capability to cue and verify cueing of off-boresight sensors and weapons, including radar, navigation system, current and next generation short range missiles (SRM). The helmet provides radar weapon symbology and visual cues of target location. The JHMCS was originally conceived as a weapons cueing system, but has evolved into a situational awareness enhancement even when it is not cueing weapons. The system will be compatible with F-15, F-15E, F-16, F-18, AV-8B, and A-10 aircraft. The \$4M in FY 2003 funded an integration study for the F-15A/B and a planned retrofit for 8 ANG F-15s and 19 pilots.

2. Requirement. JHMCS - CAF 308-93 MNS, ORD CAF-USN 308-93-I-A dated Feb 1995, CAF-USN 308-93-II-A dated Dec 1996

3. Impacts If Not Funded. The WVR threat to friendly platforms will increase with continued deployment of advanced short range IR air-to-air missiles and high off-boresight cueing systems currently being fielded on Russian aircraft such as the MiG-29 FULCRUM, Su-30 FLANKER, and other third world aircraft. The proliferation of advanced IR All-Aspect Missiles and off-boresight cueing systems will result in a lethal dogfight arena for US fighter aircraft.

4. Units Impacted.

102 FW Otis ANGB, MA
131 FW St. Louis IAP, MO
154 WG Hickam AFB, HI
173 FW Klamath Falls IAP, OR

125 FW Jacksonville IAP, FL
142 FW Portland IAP, OR
159 FW New Orleans NAS, LA

5. Contractor. Vision Systems International, San Jose, CA; Boeing, St Louis, MO

6. Costs.

Units Required	Unit Cost	Program Cost*
120	\$533,500	\$64,020,000

*Includes 10% spares, TCTO's, installs & support equipment