

Transmittal No. 03-35

Notice of Proposed Issuance of Letter of Offer
Pursuant to Section 36(b)(1)
of the Arms Export Control Act

Annex
Item No. vii

(vii) Sensitivity of Technology:

1. The Joint Helmet Mounted Cueing System (JHMCS) provides an off-boresight visual targeting of sensors and weapons with a head-out display where the pilot is looking. The system improves situational awareness in visual combat while providing off-boresight visual cueing and threat identification. Also, when combined with a high off-boresight missile, aircraft weapon system lethality is improved for short-range air-to-air engagements.
2. The configuration requested is compatible for use in F/A-18 aircraft. The configuration consists of the following equipment: electronics unit, cockpit unit, magnetic transition unit, seat position sensor, mounting bracket, lower helmet vehicle interface, helmet display unit, visor day, visor night, visor high contrast, oxygen mask, helmet upper interface, JHMCS/ANVIS-9 Night Vision Goggles adapters, and JHMCS helmet bag. The JHMCS is classified as Confidential.
3. The Tactical Aircraft Moving Map Capability (TAMMAC) System includes Digital Map Computer with extension, Advanced Memory Unit and High Speed Interface Cable. The TAMMAC system is being developed to alleviate problems, including parts obsolescence issues, associated with the Digital Video Map Set (DVMS) and the Data Storage Set (DSS) currently installed on the F/A-18. The DVMS does not possess sufficient throughput or database storage capability to support future F/A-18 operational requirements. Additionally, the DVMS cannot use Compressed AC Digitized Raster Graphic the digital map database provided by the National Imagery and Mapping Agency (NIMA), without costly preprocessing. The DSS does not provide enough memory capacity to store the desired amount of data recorded by the aircraft during flight.
4. The configuration requested is compatible for use in F/A-18 aircraft. The configuration consists of the following equipment: advanced memory unit, MU-11129A/A memory unit, digital map set, and CP-2414A/A digital map computer. TAMMAC system is classified as Confidential.
5. The Digital Communications to Wingtips system provides a digital interface for employment of a new High Off Boresight missile. Digital Communications to Wingtips is Unclassified.
6. The Combined Interrogator Transponder (CIT) AN/APX-111(V) IFF system was specifically designed for the F/A-18. The Interrogator function provides the pilot with capability to identify cooperative or friendly aircraft. The transponder function self-identifies the aircraft to other off-board interrogators in the same way as the APX-100 transponder. CIT combines most of the interrogator, transponder, and crypto computer functions into one unit outline. The electronically scanned interrogator antenna function is performed by a five-blade array and Beam Forming Network (BFN).