

DoD Test Equipment Opportunities List Recommendation Form

02 September 2008

From: Program Manager, Greg Schoo (CAPRE PM)
To: Automatic Test Systems Management Board (AMB)
Via: Automatic Test Systems Policy IPT
Chairman, Joint Panel for Aviation Support Equipment

Test Equipment Item: AN/PYM-1 Common Aircraft Portable Reprogramming
Equipment (CAPRE)
NSN: 6625-01-456-9083KV
Manufacturer: OO-ALC/MXDED

Test Equipment Description: The CAPRE is a lightweight hardware and software system providing a means to transfer Mission Critical Data (MCD) – including Operational Flight Programs (OFPs) and Mission Data Files (MDFs) – from the CAPRE ruggedized commercial laptop Re-programmer into the Line Replaceable Unit (LRU) target processor.



Test Equipment Capabilities: The CAPRE system is divided into two functional Subsystems – CAPRE Common and Aircraft Adapter Group (AAG).
CAPRE Common Subsystem

- Three Major Components
 - Ruggedized Commercial Laptop Re-Programmer
 - Universal Serial Bus (USB) Cable
 - Interface Module (IM)

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- Interface Module (IM)
 - Programmable Interface Module (PIM)
 - USB 1553 Interface Module
- Interfaces Currently Supported: RS-422, RS-485, S-311, RS-232, ARINC 429, multiple unique interfaces, and 1553
- The PIM can be reconfigured with different Field Programmable Gate Array (FPGA) files.
- The IM configuration files are provided by the AAG and are loaded through the CAPRE Host Software.

AAG Subsystem

- As required Personality Adapter Modules (PAM) provides signal conditioning for the AAG and weapon system embedded hardware to be programmed.
- Aircraft Adapter Group allows connection to target LRU system.

Systems Currently Supported:

Aircraft:

C-17, C-130, CV-22, MH-53, C-141, F-16, F-15, A-10, B-52, C-5A, HH-60, RC-7

Other Systems:

TPS-75, EFV (under development)

Please note: OO-ALC/MXDED can integrate the AN/PYM-1 for all Weapon/Platform systems.

Acquisition Information:

Contact POC listed below with requirements to obtain quote from OO-ALC/MXDED and or MIPR instructions.

Life Cycle Support Plan:

Support Provided by CAPRE Program Office. Contact POC listed below.

Point of Contact Info:

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Concurrence with this nomination package has been received from all ATS Policy IPT Service representatives and the Chairman of the Joint Panel for Aviation Support Equipment. Concurrences are on file with the DoD ATS Executive Directorate.

Approved

Disapproved



Director, ATS Executive Directorate
Chair, ATS Management Board

11/24/08

Date