

LUG Develops AC-130H PC based Trainers OFP Updates Concurrent on A/C & Trainers



HCST Trainer



LUG Engineer: John Turner

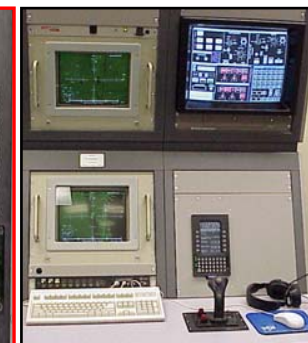
Problem:

- No Offboard Crew Trainer on AC-130H Gunship. Operational Aircraft must be used to train Aircrews, Only 8 Aircraft (A/C) in Fleet.
- Typical Operational Flight Program (OFP) in other Aircraft and their Trainer's are normally functioning on different Software Versions.



Solution:

- Developed Low Cost PC based Trainers utilizing existing capabilities: PC-based OFP tools, Flight simulation software from existing integration facility and Current OFP for Mission Computer (MC) and Control Display Unit (CDU); Avoids expensive LRU and Logistics costs.
- Concurrent updates of both Aircraft and Trainer's OFP, No OFP version mismatch. WR-ALC investigating the integration of this concurrency technology into other training platforms per 19th SOS & OO-ALC/YWS. An example of the concurrency issue is the Combat Talon I trainer, 5 software builds behind A/C's.
- Train Aircrews on Software & Hardware enhancements, Reduce Aircraft Flight Training Requirements, Increase Crew readiness.
- Provides Integrated Training (NAV, FCO, Sensors, EWO) & Crew Coordination (MC, CDU, Aircraft/Avionics, Video Terrain, Interphone Communication, Consoles).
- CDU Trainer and H-Model Crew Station Trainer (HCST) was updated before fielding on Aircraft.
- Provides rapid prototype capability to allow integration of new avionics requirements (i.e., Image Transfer System).



Training 16 SOS Prior to Flying Fielded OFP



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