

TACTICAL ENGAGEMENT SIMULATION SYSTEM (TESS) APACHE LONGBOW

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NSN 6910-01-585-8861
NSN 6910-01-585-8906
NSN 6910-01-585-8940
NSN 6910-01-585-8972
NSN 6910-01-585-8960
NSN 6910-01-585-8977

DVC 01-186/1 (TESS) (B) Kit
DVC 01-186/3 (TESS) Ground Systems MCC I/O Unit
DVC 01-186/4 (TESS) Ground Systems MCC I/O Accessory Box
DVC 01-186/5 (TESS) Ground Kit GL Kit
DVC 01-186/6 (TESS) Ground TIB Assembly
DVC 01-186/7 (TESS) Ground Kit Repeater Assembly
DVC 01-186/8 (TESS) Ground Systems HHI

TESS B Kit



TESS Training Missile



Counterweight



ESLRF/D



30 MM Transmitter



FlashWESS



SMODIM



Automatic Internal Boresight (AIBS)



Training Laser Control Unit (TLCU)



Training Category/Level Utilized:
Aviation/Level 1

Logistic Responsible Command, Service, or Agency:
PEO STRI, PM Field OPS

Source and Method of Obtaining:
Available at all posts where Longbow Apache is assigned.

Purpose of Trainer:
TESS is a training and simulation system comprised of an aircraft system and a ground instrumentation system that supports individual, crew, gunnery, and collective live force-on-force training.

Functional Description:
TESS is comprised of embedded aircraft functions (A kit) and external functions (B kit) capable of simulating all AH-64D Apache weapon systems (line-of-sight and non-

line-of-sight) tactical engagements. The "A" kit adds weapons emulation plus TESS subsystem controls and displays to the AH-64D Apache. The "A" kit consists of software installed in the aircraft to support the integration of "B" kit components. The "B" kit consists of: Smart Onboard Data Interface Module (SMODIM), TESS Training Missile (TTM) FlashWESS and Aircraft Kill Indicator, MILES Lasers for the 30mm gun and Eye Safe Laser Rangefinder/Designator (ESLRF/D), and training laser control unit (TLCU). The system provides real time casualty assessment for force-on-force and force-on-target collective training. The system is MILES/AGES II compatible, and provides real time data recordings for After Action Reviews (AARs).

TESS uses onboard Longbow Apache systems and displays to fulfill the requirement of being transparent to the user. LBA TESS is compatible with all MILES systems and the CTCs. The Mobile Command Center (MCC) (1 suite per kit) allows commanders the capacity to monitor Longbow training engagements in near real-time,