

U.S. Marine Corps (Ground)

Virtual Instrument Portable
Equipment Repair/Tester (VIPER/T)



dme
CORPORATION

VIPER/T ATE Program



- Base Contract: Awarded to DME Corporation December 2004
- Description: DME to provide test stations and related data and supplies to the Marine Corps. VIPER/T is a portable, ruggedized, automated test unit used to test and diagnose electronic, electro-mechanical, electro-optic, and Radio Frequency modules for a wide variety of weapons systems and equipment.
- Potential: The ID/IQ contract runs through 2010 with delivery of over 100 new systems and retrofit of over 200.
- Program Manager: Lou Salzano

VIPER/T ATE Program



- Delivery Order 1: Awarded to DME Corporation January 2005
 - Description: DME to deliver two (2) First Article and seven (7) Production Systems, along with related data, manuals, and training materials. DME also to deliver 16 Instrument Controllers to retrofit legacy TETS systems.
 - Status: Complete
- Delivery Order 2 and 3: Awarded to DME Corporation July 2006
 - Description: DME to deliver 14 VIPER/T RF Systems, 60 Instrument Controller retrofit kits and 54 Power Distribution Unit retrofit kits.
 - Status: Delivery Order 2 in process, Delivery Order 3 (PDU kits) is complete

VIPER/T ATE Program



- Delivery Order 4 and 5: Awarded to DME Corporation September 2006
 - Description: DME to deliver 33 VIPER/T RF/EO Systems, 152 Instrument Controller retrofit kits and 90 Power Distribution Unit retrofit kits.
 - Status: Delivery Order 4 in process, Delivery Order 5 (3 RF/EO Systems) is complete
- Delivery Order 6: Awarded to DME Corporation August 2007
 - Description: DME to deliver 6 VIPER/T RF/EO Systems and 32 VIPER/T EO Systems
 - Status: In-process

VIPER/T ATE Program



- Delivery Order 7: Awarded to DME Corporation February 2008
 - Description: DME to deliver 30 VIPER/T RF Systems and 5 VIPER/T EO Systems
 - Status: In-process
- Delivery Order 8: Awarded to DME Corporation September 2008
 - Description: DME to deliver 26 Synchro Resolver/Simulator Retrofit Kits
 - Status: New Order

VIPER/T ATE Program



- Current production rate: 5 systems per month
- Total units for all Delivery Orders
 - 127 VIPER/T Systems
 - 45 RF
 - 44 RF/EO
 - 38 EO
 - 228 IC Retrofit Kits
 - 144 PDU Retrofit Kits
 - 26 SRS Retrofit Kits
- Deliveries to date
 - 46 VIPER/T Systems
 - 16 RF
 - 26 RF/EO
 - 4 EO
 - 20 IC Retrofit Kits
 - 26 PDU Retrofit Kits

VIPER/T ATE Program



Legacy TETS



VIPER/T



EXPANDED CAPABILITY

- “3-box” base system (including RF and added capabilities)
- Single assembly Power Distribution Unit
- Upgraded Instrument Controller
- Synthetic Instrumentation RF Measurement Suite (to 18GHz)
- Added Synchro Resolver/Simulator
- Added generic and peculiar busses to support EFV
- Redesigned/repackaged “one-box” EO subsystem

VIPER/T ATE Program



Legacy TETS EO



Collimator



IR Module



Visible Module



Laser Module



VIPER/T EO



VIPER/T ATE Program



- Instrument Controller Retrofit Kits
 - Consists of Amrel laptop, docking station and Windows XP-based operating system with modified system software
 - Replaces IBM Thinkpad and legacy docking station with Windows NT-based OS
- Power Distribution Unit Retrofit Kits
 - Consists of new single box PDU with modified system software
 - Replaces legacy two-box Aegis PDU
- Synchro Resolver/Simulator Retrofit Kits
 - Consists of a NAI Synchro Resolver Simulator VXI card and corresponding cables with modified system software
 - Adds additional capability to legacy TETS

VIPER/T ATE Program Milestones



- Base Contract (ID/IQ) Award: 27 December 2004
- Delivery Order 0001 Contract Award: 4 Jan 2005
- Preliminary Design Review: May 2005
- Critical Design Review: September 2005
- Test Readiness Review: December 2006
- First Article Test (Phase I): May 2007
- First Article Test (Phase II – EO): June 2007
- Deliver first Production Unit: August 2007
- Deliver last Production Unit under current orders: Dec 2009