

**STATEMENT OF WORK  
FOR  
RETS/ERETS INSTALLATION/TRAINING**

1. The contractor shall install the following equipment for the qualifications training range (QTR) at FT Knox, KY:

<u>QUANTITY (EA)</u>	<u>EQUIPMENT</u>
390	Infantry Target Mechanisms (ITM)
463	Low Power Junction Box (LPJB)
2	Range Control Station (RCS) – Armor
1	Electric Armor Moving Target Carrier (EATMC) 210 meter track
72	Tank Target Mechanism (Hardwired)
74	Armor Target Kill Simulator (ATKS)
433	3D Target Mannequins
1	Remote Modem
4	Central Modem
1	Target Interface Unit (TIU)
143	Dual Target Arms

There are five Modified Rifle Record Fire Range (MRRFR) lanes (1 through 5) at 1500 meters, 15 Combat Pistol Qualification (CPQ) lanes, and five MRRFR lanes (6 through 10) at 800 meters. Installation requirements shall start on or about 3 Apr 2000. The period of performance shall be 50 calendar days from the start of the installation.

2. The contractor shall be responsible for providing personnel and equipment for the unloading of all equipment at the time of its delivery at FT Knox. Contractor shall also be responsible for transporting all the equipment to the site of the range installation at FT Knox. The contractor shall be responsible for unpacking and taking inventory of the equipment, storage and security for the equipment while on the range. The contractor is also responsible for clean up of the range site and disposal of the packing material in accordance with FT Knox standard operating procedures for recycling. The contractor shall be responsible for providing the above mentioned personnel and equipment regardless of whether equipment is produced by the contractor or provided as Government Furnished material (GFM). Equipment produced by the contractor that fails during range installation and prior to range acceptance, shall be repaired or replaced after submission of a failure analysis report within 30 days of range acceptance to the Procurement Contracting Officer (PCO) by contractor at no additional cost to the government. Defective GFM shall be handled in accordance with the Government Property Clause of this contract. If GFM fails during installation, the contractor shall be responsible for repair of the item to make it functional at no additional cost to the government. If the GFM cannot be made functional, the contractor is responsible for shipping it back to his facility, performing a diagnostic analysis, providing a failure analysis and a quote for repair to the PCO within 30 days of range acceptance date.
3. The contractor shall provide support requirements necessary at FT Knox during the period the QTR equipment shall be installed, personal comfort facilities and related servicing, security requirements, communication requirements, storage facilities, and waste disposal.
4. The contractor shall use RETS Installation Procedure, drawing 9387660, CAGE 19200, along with associated drawings as guidance on interface requirements for the QTR configuration. The contractor shall use existing range power and data cables for installation. Installation of TTMs shall be on range configuration, Corps of Engineer's (COE) manual at <http://www.hnd.usace.army.mil/rtlp/dsgnman/DesignDraw/dsgndraw.htm#C-01>, concrete stationary armor target emplacement drawings C-09 and C-10. TTMs installation shall include Initial Adjustments and Control Settings; reference Lockheed Martin Publication Number 15701585, Technical Manual Operation and Maintenance Instructions Tank Target Mechanism. The contractor shall be responsible for developing and installing the graphics for the QTR RCS. The contractor shall

**STATEMENT OF WORK  
FOR  
RETS/ERETS INSTALLATION/TRAINING**

provide the two Lockheed Martin commercial Armor Range Control Stations with Windows Based Range Control Software Lockheed Martin part number 15704544 including operator/maintenance manuals. Upper level of the control tower RCS will be capable of operating the entire QTR. The lower level of the control tower RCS will be capable of operating MRRFR lanes 6 through 10, and all 15 lanes of the CPQ course. ITMs shall be positioned such that there shall be no interference with the use of a DTA. The contractor shall provide all mounting and installation hardware not already included with the items identified in paragraph 1.

5. In the event integration problems are experienced involving the in-ground installation of equipment, the contractor shall notify the PCO within three working days. At the time of notification, the contractor shall provide an analysis of the impact that the integration problems shall have upon installation of RETS/ERETS equipment upon the range.
6. Final inspection (examinations and tests) and acceptance shall be at the range installation site and shall consist of the following:
  - a. Contractor Final Inspection: After delivery and installation of the RETS/ERETS equipment, the contractor shall perform inspections and tests necessary to assure that all contract requirements have been met to include completion of 50 cycles of the integrated system without failures. When all deficiencies found during the contractor's inspections have been corrected, the contractor shall notify the PCO, or his authorized representative, that the equipment installation is complete and ready for final government inspection.
  - b. Government Final Inspection:
    - (1) Notification that the range is ready for government inspection shall be provided in writing to the PCO with a copy to TACOM-ARDEC (AMSTA-AR-QAW-C (RI)), Quality Assurance Representative (QAR), so as to arrive at least five working days prior to the date scheduled for initiation of range inspection. Adjustments/modifications to the inspection schedule may be made by telephonic notification to HQ, QAR, provided such notification is made at least one day prior to departure of the designated government QAR for the range.
    - (2) Upon arrival of the government QAR at the range, the contractor QAR shall present the following documents:
      - (a) A copy of all required certifications.
      - (b) A copy of the fifty cycle test report.
      - (c) A copy of the contractor's inspection records.
      - (d) A certification listing all waivers/deviations applicable to the range, including a statement that all of the listed waivers/deviations has been approved and is included in the contract for installation of the range.
      - (e) A listing of all observed deficiencies/shortcomings from the Installation Site Survey which have not been corrected at the time of the range installation.
    - (3) The final government inspection shall be in accordance with the Product Acceptance Test (PAT) Plans: Remoted Target Systems (RETS), revision F, dated 30 Dec 1988: or

**STATEMENT OF WORK  
FOR  
RETS/ERETS INSTALLATION/TRAINING**

Enhanced Remoted Target System (ERETS), revision C, dated Feb 1991, as well as applicable drawings and specifications. The examinations and tests shall be performed by the contractor and witnessed by the authorized representative of the PCO. The government reserves the right to have the contractor perform any or all tests in the product assurance test plan, or any other inspections, as deemed necessary to ensure compliance with all contract and specification requirements. As a minimum, range inspections shall be conducted to the following requirements and instructions:

- (a) A visual inspection of the installed items (and associated equipment), a functional test of the installed items, and an operational test (50 cycles) of the installed range. The inspections shall include, but not be limited to, workmanship and housekeeping procedures (clean up of the installed items and removal of residue/debris remaining from the installation operation).
- (b) EATMCs (including track and other associated items) shall be inspected 100 percent. Sample size and accept/reject criteria for ITMs, TTMs, etc., shall be in accordance with the following sampling plan:

<u>LOT SIZE</u>	<u>SAMPLE SIZE</u>
2-8	2
9-15	3
16-25	5
26-50	8
51-90	13
91-150	20
151 and above	32
All sample sizes shall reject on one deficiency.	

- (c) Each type of target/item on the range shall be considered as a separate lot. Acceptance of the range shall require acceptance of all target/item groups or lots that are installed on the range.
- (d) The contractor shall not knowingly present any nonconforming items to the government. Accordingly, the contractor prior to government acceptance of the range shall correct all defects observed during the inspection of the range.
- (e) If a defect is found to reject the range, the government reserves the right to either stop inspection at that point and reject the range, or to complete inspection of the designated sample before cessation of inspection.
- (f) If the range is rejected during inspection, the contractor shall be required to take corrective action and resubmit the range for inspection. A written report of corrective action taken, to include action taken to prevent recurrences, shall be submitted to AMSTA-AR-QAW-C (RI); the government reserves the right to require submission and approval of the corrective actions report prior to conducting the re-inspection.
- (g) The government reserves the right to determine the degree and extent of re-inspection in the event that a range or lot/group of installed items is rejected.

**STATEMENT OF WORK  
FOR  
RETS/ERETS INSTALLATION/TRAINING**

- (4) If a range is rejected by the government, is not ready for government inspection at the time specified in the notification, or if the inspection is not completed within the allotted time due to contractor delays, the contractor may be held responsible for and thus charged for, all costs incurred by the government which are related to the requirement for re-inspection or due to contractor delays.
  - (5) If the range is rejected by the government, and is further rejected upon re-inspection, the government reserves the right to suspend all further inspection, or to institute 100 percent inspection on that range. Such action may remain in effect until the contractor has adequately demonstrated the effective corrective action has been taken to correct the problem and prevent recurrence. Further, the contractor may be held responsible and charged for any and all costs incurred by the government in performing the 100 percent inspection.
  - (6) If the range is rejected by the government, the contractor retains responsibility for the satisfactory operation of all installed items/equipment on the range to include any lot/group of items which may have met acceptance requirements during inspection sampling until such time as the complete range is accepted by the government. As a part of re-inspection, the contractor may be required to demonstrate satisfactory operation of the complete range.
- c. Government Acceptance: Acceptance of the installed system shall occur when the PCO or the authorized representative of the PCO has been assured that contract and specification requirements have been met and so indicates by affixed signature on the applicable DD Form 250.
7. Maintainer and Operator Training: Training shall be provided to 10 students at FT Knox. Following the acceptance of the range by the government, the contractor shall conduct a DS/GS maintainer course. Course shall be three days duration to include both classroom and hands-on training. It shall cover the maintenance of the EATMC and the TTM. The contractor shall also conduct a one-day operator/maintainer course of the Lockheed Martin commercial Windows Based Range Control Station to include both classroom and hands-on training. Each student shall receive copies of TMs and other instructional materials. At the conclusion of the training, each student will fill out a training evaluation and receive a training completion certificate.
8. At the end of installation, the contractor shall provide the range with a layout identifying the target address for each target location, and a diagram of the down range data wiring.