

Information for Basic Ordering Agreement (BOA)
Between
Army Contracting Agency (ACA), White Sands Missile Range
And
Horton Technical Associates, Inc., Las Cruces, New Mexico

June 20, 2007

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Capability Summary:

Horton Technical Associates, Inc. (HTA) is a service-disabled, veteran-owned business associated with a consortium of other service-disabled veteran-owned businesses and Vietnam-era veteran-owned small businesses, as well as 8(a) and certified SDB firms. As a group, we are all 8(a), SDB, and Vet Owned businesses that provide services and product expertise, or access to services and expertise that includes the following:

1. Technology Assessments (Services and Products).

We offer products that allow customers to evaluate, in detail, advanced lethality, survivability, and sensor technologies. These assessments produce reports that investigate the physics and engineering principles associated with identified technologies and allow customers to evaluate their anticipated performance in laboratory and field environments.

In conjunction with our technical reports, we develop, document, and use customized mathematical models to support our technical assessments and enhance our customers' ability to assess potential tradeoffs in technical performance areas.

Technology assessment products offered include written technical reports, and copies of our mathematical models (with documentation). We offer options for purchasing on-site training and support that helps explain how to use our models. There is also the option of purchasing on-line subscriptions that provide access to web-based training programs and model updates.

2. Systems Engineering (Service).

HTA offers independent analysis of the impacts (i.e. performance, cost, weight, volume, and integration requirements) that a new technology or capability may have on a host platform's operational capabilities.

These analyses address component design issues, approaches, and requirements; they identify and develop relevant measures of performance and system-level metrics; and they measure the physical, electronic, and processing demands of individual components, collections of components, and platform integration kits.

We document all system engineering services in reports that allow our customers to establish the relative worth, effectiveness, and estimated return on investments associated with component concepts.

3. Operations Research (OR) (Service).

HTA's OR services leverage over 30 years experience with advanced weapon systems design and development. These services help to estimate the benefits, burdens, and operational payoffs and constraints associated with new capabilities.

We evaluate the expected performance of component, subsystem, and system concepts in an operational context. We also use internally developed modeling and simulation tools to provide independent assessments of military impacts.

Our reports and recommendations allow developers, engineers, testers, and analysts to identify and explore alternative technology solutions for a given set of problems.

4. Software Engineering and Development (Services and Products).

We offer custom software application design, engineering, development, testing, documentation, training, and Verification and Validation (V&V) services for products.

Our software engineering process emphasizes concurrent design, development, testing, V&V, and documentation development. This product development strategy enables rapid

prototype design, coding, testing, and delivery of custom software solutions which include complete documentation packages.

HTA also offers independent software V&V services to support accreditation of other software applications by government agencies. An HTA 8(a) associate also provides a CMM-3 (level 3) process certification that can be licensed.

5. Cyber-Security Solutions (Services and Products).

For agencies concerned about the security of their computer networks, our consortium offers a unique Intrusion Detection System (IDS) solution. This solution adapts innovative *risk metrics* technologies to manage the detection, response, and tracking of intrusions to your existing network systems.

This solution provides programmable digital paging technology to enable automated remote alerts. Staff members can identify and choose network attacker profiles to include in these alerts.

In addition to flagging intrusions, profiling them based upon the level or cost of the risk, and alerting remote staff, this IDS solution logs all intrusions and their profiles to a local or nationwide network of profiled intruders. Logged profiles can include originating URLs.

6. Network Vulnerability Assessment Tools (Services and Products).

These tools and products combine advanced scanning technology with a comprehensive vulnerability database. This combination discovers wired and wireless network connections and devices, identifies operating systems, applications, databases, and wireless access points that exist within the network, and compares them against established standards and operational business rules.

Much more than simple IP scanners, these vulnerability assessment tools detect, identify, and report unauthorized applications, such as point-to-point, “mal-ware” or “spy-ware.” They also scan all ports on every networked device, and discover and flag unauthorized applications for remediation.

Remediation can occur manually, but it can also occur through a Remediation Manager. This manager provides automatic responses to ensure networks attain (or regain) compliance with established security policies and protocols.

These tools also allow Systems Administrators to manage software patches and updates throughout their organization and allow managers to avoid “panic patches” to software.

7. Force Protection Devices (Products).

Our affiliates can provide and install facility security options that provide video surveillance and integrated access control, and maintain quality airflow control to critical operating centers and cyber-security centers.

Cost-effective ultra-violet (UV) light technologies will sterilize and/or destroy bio-chemical and viral threats that may compromise critical centers or entire buildings. These offered services can provide remedial action on existing airflow ducts (e.g., cleaning and sterilization), install UV light filters, and UV sterilization of incoming water.

To further facilitate and enhance airflow maintenance and installation protection services, our consortium offers certified anabec applicators, certified mold remediators, non-destructive in-floor duct repair services, IICRC master cleaners, IICRC master restorer, video inspection services, pre-purchased DuctCam investigations, pre-purchased SewerCam investigations, and purification equipment and filter sales.

8. Vehicle Inspection Solutions (Products).

To assist internal and installation security forces, a unique vehicle inspection solution monitors vehicles, their plates, and drivers. This solution takes snap shots of the under-carriage of vehicles moving at speeds of up to 35 miles per hour for storage online and for immediate flagging of foreign objects based upon what the undercarriage of a vehicle of that make or model should look like. This solution allows installation protection forces to inspect vehicle under-carriages as they enter (or even leave) protected facilities.

Options include capture and storage of front/rear license plates and up-close snap shots of the driver and occupants and could be associated with facial recognition. Our view of facial recognition is "exception reporting"; that is, not comparison to a nationwide database of known "criminals," but rather comparison to a database of Base Personnel, or the flagging of "unknowns." This approach eliminates the major draw back of facial recognition as it exists today.

9. Tone Unit Network Access (TUNA).

TUNA is a "form, fit, and function" replacement for an older technology used to interface devices used for range control functions and services used by the US Army and US Air Force. TUNA employs a state-of-the-art digital design to perform essential data communications and control functions which have proven superior to other alternatives. It provides a simple, reliable, and efficient method for transmitting data and commands and for connecting devices to existing networks. The technology divides the communication spectrum into discrete channels through a unique system of bandwidth filtration and Dense Wavelength Division Multiplexing (DWDM). Each channel is capable of providing device conditions status, carrying commands, and carrying data. If 3G wireless technology can meet established security standards, our consortium can adapt wireless technologies to TUNA architectures. Our consortium can also provide replacement parts for existing TUNA components or design and new components with identical functionality.

10. Custom Support Tools (Products).

HTA's consortium of SDB, Vet and 8(a) firms offer a robust set of custom support services and solutions, including:

- (a) Custom web-enabling of legacy applications
- (b) Development of web enabled database-driven applications for closed networks or intranets. Services can include SQL-, Oracle-, or custom-based platforms based on a customer needs.

- (c) Extensive experience providing compliance with Section 508 of the Handicap Act.
- (d) Extensive experience in posting massive volumes of data to web sites that are not only 508 compliant, but meet the format requirements of legal positions for F.O.I.A. response or the process of litigation Discovery.

11. Integrated Decision Support System (product).

This tool provides a solution for integrating several disparate systems to provide *real-time performance metrics*. It allows systems to “sense and respond” to variations from established rules so that they reflect the state changes in legacy reporting systems and applications. By monitoring the pulse of related, but disjoint system processes, this solution flags anticipated deviations or exceptions to established rules.

This solution may also be applied to components that are part of a facility intrusion system that includes video surveillance, access control, vehicle undercarriage snapshots, and vehicle occupant snapshots, as well as motion, bio-chemical, and explosive detection sensors. The system’s process controller can sense any “triggering event”, alert security personnel, identify and bring the other components on-line to focus on the event, and alert supervisory staff, if needed.

Special note: This decision support system, initially designed to monitor massive inventory systems across large enterprises, is currently in use at Wal-Mart and the Department of Defense. At Wal-Mart, with its 4,000 stores, the tool tracks and maintains information about inventory items, to include consumption rate, customer interest, manufacturing problems, etc. In the Department of Defense, the tool monitors movement of supplies, flags errors, identifies all common points associated with sets of errors, and recommends corrective actions.

12. Miscellaneous Services (Services).

The HTA consortium provides access to other services in the following areas:

- Cross-layer optimization of signal frequencies, signal power levels, instantaneous data rates, routing, antenna weighting, and link scheduling. Other parameters can be used to increase wireless system capacity, and reduce unintended interference. These solutions enhance the synchronization of wireless network operations and improve system data transfer.
- Information Security (Infosec): Risk Assessment, Certification & Authentication, follow-up Systems Test & Evaluation, Systems Assessment, and Threat Analysis. These services ensure networks, applications, and systems comply with established standards and operational guidelines.
- Systems and data conversions to modernize or re-host legacy applications.

Please see the HTA website for more information on our capabilities and credentials.

Facility Clearance: Secret

NAICS 2002 Codes:

423430	Computer and Computer Peripheral Equipment and Software Merchant Wholesalers
514191	On-line Info Services
517110	Wired Telecommunications Carriers
518210	Data Processing, Hosting, and Related Services
541330	Engineering Services
541511	Custom Computing Programming Services
541512	Computer System Design Services
541513	Computer Facility Management Services
541519	Other Computer Related Services
541611	Admin Mgmt & General Mgmt Consulting
541618	Other Management Consulting Services
541710	R&D in the Physical, Engineering, and Life Sciences
561611	Investigative Services
561990	All Other Support Services
611410	Business and Secretarial Schools
611420	Computer Training
611430	Professional and Management Development Training

Federal Tax Identification Number: 861-039-309

DUNS Number: 084156764

Cage Code: 1MJ78

SDVOB Status Explanation: HTA's President is William D. Horton, LTC, U.S. Army (Ret). Mr. Horton is a service-disabled veteran and owns 51% of the company's stock.

CCR Registration. HTA is registered with Central Contactor Registration (CCR)

Merchant Accounts: HTA has a bank merchant account, and we do accept payment by government VISA purchase cards.