

# **STATEMENT OF WORK**

## **Interagency Agreement Between U.S. Customs and Border Protection And DOE/NNSA/SSO for Sandia National Laboratories Proposal No. 081070117**

### **A. AUTHORITY**

Section 309 of the Homeland Security Act of 2002 – Public Law 107-206 (6 USC 189).

### **B. OBJECTIVE/PURPOSE**

SBI net needs subject matter experts (SMEs) on fence/barrier systems and security systems to support their Fence Lab Project, which Sandia National Laboratories can provide. SBI net also needs additional fence/barrier system test facilities, in the event that the current testing site at the Government selected test lab is unable to perform the tests due to schedule conflicts, security concerns or technical limitations, or in the event that SBI net desires to do more advanced integrated testing in a carefully controlled integrated testing environment like at Sandia's (b) (7)(E)

The test lab will be used for basic screening of candidate solutions for viability in a repeatable process according to SBI net PMO performance criteria and other considerations. Once the candidate fence/barrier solutions are tested and evaluated at the test lab according to the SBI net performance criteria and new procedures, then successful solutions can be recommended for acquisition and deployment. If determined appropriate, promising solutions can undergo additional testing, redesign, new hybrid development of desired features, integrated testing with other technologies, field testing under different environmental conditions or applications, and/or pilot testing along border.

### **C. SCOPE**

Sandia will participate in the Fence Lab Project and provide SME's in the process of reviewing and selecting fence/barrier candidates for testing at a Government selected test lab, development and execution of the Test and Evaluation Plan, and support the Interim and Final Test and Evaluation Report as requested by SBI net PMO.

Sandia will also perform market survey/research of government developed fence/barrier solutions and provide such input for inclusion in the review and selection of fence/barrier candidates for testing, and act as government representative at the request of SBI net PMO to fulfill design, test, and evaluation responsibilities required to support the T&E plan. In the event that the government developed fence/barriers do not make the cutoff

date for inclusion in the initial test phase at the Government selected test lab, Sandia is to provide information to SBInet and Boeing as it becomes available for inclusion in the T&E report as an addendum for potential future action.

### 1. **Tasks:**

Sandia National Laboratories shall:

#### **Task 1. Review Evaluation Criteria**

- Prepare informal summary report (format to be determined)
- Report initial list of criteria
- Provide detailed prioritized list of criteria with justification

#### **Task 2. Contribute to Test and Evaluation Plan Development**

- Informal (format to be determined) reports
- Input to plan (suggested plan format and content, test protocols, data to be taken)
- Assessments of plan and draft and final stages
- Suggestions/considerations applicable to specific candidate fence systems

#### **Task 3. Identify and represent government-sponsored fence/barrier solutions**

- Informal report identifying existing systems; data summaries where available; provider contact information
- Fence system(s), installed at the identified test facility as specified in the final test plan

#### **Task 4. Perform, provide, and/or coordinate additional testing, analysis and assessment upon request**

- As required. In most cases, a requirements document; test plan including requirements tracking, document and material control, risk management, resource-loaded plan, integrated master schedule; test data, documentation and artifacts from an executed test series; test and analysis report

#### **Task 5. Provide Subject Matter Expert (SME) consulting**

- As requested. Informal and formal reporting to inquiries from CBP
- Notes summarizing status and commitments from weekly teleconferences with the CBP program manager

### **Task 1: Review Evaluation Criteria**

**Description:** As requested by CBP, the goal of this program element is to assist the program office in identifying the evaluation criteria best suited to predict the success of candidates with respect to the stated characteristics (b) (7)(E)

Specifically, Sandia will provide assistance to The CBP Program Manager (PM) to develop criteria and methodology to apply in the selection of candidate

fence systems for inclusion in the initial test series. Sandia will provide subject matter expertise to assist with the selection of candidate fences for the initial test program.

## **Task 2: Contribute to Test and Evaluation Plan Development**

**Description:** Sandia will, upon request from CBP, assist the program office in the development of the Test & Evaluation (T&E) plan. Specifically, Sandia will review proposed test plans and make recommendations for changes (to the interim draft and final test plans) to ensure; a robust, repeatable test and analysis protocol; consistency with applicable government standards; transparent and documented requirements traceability from customer goals through test results and analysis; consistent and secure documentation and traceability and pedigree of all hardware, software, and data.

## **Task 3: Identify and Represent Government-Sponsored Fence/Barrier Solutions**

**Description:** Sandia will, upon request from CBP, identify government sponsored fence or barrier technologies as possible alternatives for meeting requirements regarding initial vehicle penetration testing. This task is divided into the following two subtasks:

3.1. Research government-developed technology supporting fence solutions. Recommend contributors. Identify and collect information on government-sponsored fence/barrier solutions (as requested by CBP). Submit input to Boeing for inclusion in evaluation process.

3.2. Facilitate the supply and support for government-developed fence/barrier solutions included in test activities (as requested by CBP). Provide any selected government-sponsored fence systems (to Boeing or the identified test facility); support their inclusion in the initial vehicle penetration test series.

## **Task 4: Perform, provide, and/or coordinate (b) (7)(E) and/or Other Testing and Analysis Upon Request**

**Description:** Sandia will, upon request from CBP, perform additional testing and analysis, including performing basic testing should TTI be unable to sufficiently meet the needs of CBP, and performing integrated testing should CBP desire such services in the future. This task includes, but is not limited to (a) participating in the initial basic (b) (7)(E) tests, (b) performing analyses of the initial (b) (7)(E) tests, (c) developing models of the initial tests and utilizing these to simulate interpolations/extrapolations of the initial test series, (d) performing additional, similar (b) (7)(E) tests in a test-range environment, (e) performing similar tests of the deployed systems at or near the appropriate border locations, (f) performing additional test series and analyses beyond (b) (7)(E) (TBD).

## **Task 5: Provide Subject Matter Expert (SME) Consulting**

**Description:** Sandia will, upon request from CBP, provide subject matter expert consulting as required (i.e., review data and processes, fence/barrier design, systems integration consideration, performance criteria, evaluation analysis, vulnerabilities studies, standards development, simulation modeling, etc.).

If any testing is to be performed at Sandia (via SBInet exercised option), Sandia assumes that there will be a waiver for Environmental Assessments. If not obtained, all applicable laws remain in force. Sandia assumes full responsibility for any tests performed by Sandia personnel using Sandia equipment (including adhering to applicable safety, health, and environmental laws and regulations), and any subcontractor arrangements made by Sandia or equipment rented/leased by Sandia.

### **2. Estimated Cost Breakout (including applicable fees):**

Funds provided are **\$995,000.00** for all labor, material, and subcontracts to cover a period of performance from contract award to 8 February 2008, with two (12) month Option Periods.

If testing is unable to proceed at the Government selected test lab and the contingency plan option of performing testing at Sandia is implemented, it is assumed that money originally budgeted for will be made available to support testing at Sandia. Additional expenses incurred at Sandia could be offset by a reduction in scope or transferring additional funding from project reserves.

### **D. PERIOD OF PERFORMANCE**

The period of performance is from contract award through 8 February 2008. There will be two (2) option years. The period of performance for each option year will be 12 months.

### **E. Travel**

Long distance travel is required for the performance of this IA. In accordance with contract all long distance travel must be approved in advance by the COTR to be eligible as a reimbursable cost under this IA.

### **F. POINTS OF CONTACT**

Provide the names, titles, email address, telephone numbers, and fax numbers of the COTRs/POCs for both CBP and the participating agency.

#### **CBP Project Manager & COTR:**

(b)(6);(b)(7)(C)

**CBP Acquisition/Contracts:**

**(b)(6);(b)(7)(C)**

**Sandia SMEs & Test Lab Point of Contact:**

**(b)(6);(b)(7)(C)**

**Sandia IA Specialists:**

**(b)(6);(b)(7)(C)**