
ATTACHMENT 1

Order No. HSBP1007J15464

Contract No. HSBP1006D01353

Secure Border Initiative (SBI)net

Fence Lab Task

Performance Work Statement (PWS)

**The Boeing Company Secure Border Initiative (SBI)net
Fence Test Performance Work Statement (PWS)**

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Background

Achieving operational control of the border of the United States of America (USA) is one of the key mission objectives of the Department of Homeland Security (DHS). Managing, securing, and controlling the border requires determining the optimum mix of personnel, technology, infrastructure, and response platforms required to achieve maximum tactical and strategic advantage in each unique border environment. This strategy will significantly reduce the probability of illegal entries and successful cross-border violations into the USA and maintain control of the border. A systematic approach will deploy and integrate systems and services in stages, allowing each stage to build on the success of earlier stages.

The Secure Border Initiative (SBI) is a comprehensive approach to immigration enforcement. The SBI focuses broadly on two major enforcement themes: controlling the border and immigration enforcement. In developing the SBI, the Department of Homeland Security (DHS) and Customs and Border Protection (CBP) are taking an integrated systems approach to the problem. The entire immigration enforcement system requires review, beginning with the gathering of immigration-specific intelligence and the detection of illegal border crossings, followed by apprehension, processing, transportation, and detention of the alien, and ending with the alien's removal from the U.S. Adding agents at the border is insufficient unless they can also be given the technology and infrastructure they need and unless we detain and remove the aliens they catch.

1 Scope

Boeing shall solicit fence/barrier candidate solutions from interested parties according to performance criteria (requirements and goals) provided by SBI net Program Management Office (PMO).

~~Up to six candidate fence/barrier solutions (along with up to two Government provided solutions submitted, including MP Jersey barriers and CBP railway barrier) shall be evaluated~~ against the performance criteria and other special considerations. Low cost and the ability to be deployed in selected locations are the primary factors for consideration during the evaluation and selection process. However, there exist numerous other requirements, goals, and special considerations with trade-off implications. Boeing shall hold a review meeting with the Program Manager, SBI net PMO to review the evaluation criteria/selection process and the data used to narrow the list of candidates for testing and evaluation.

Boeing shall develop a draft test and evaluation plan based on SBI net PMO and test facility input. Boeing shall then hold a review meeting with the Program Manager, SBI net PMO to review the test and evaluation plan. After approval of the test and evaluation plan and the list of candidates for testing by the SBI net, Boeing shall construct, test, demonstrate, inspect, and analyze the candidate fence/barriers at the government provided test facility.

Boeing shall provide a draft test and evaluation report based on preliminary findings to the SBI net PMO by the sixth Week after Authorization To Proceed (ATP). After receiving feedback, Boeing is to provide an interim test and evaluation report and present the findings to Program Manager, SBI net PMO by the end of Week 8 after ATP.

The interim test and evaluation report shall include quantitative and qualitative results from the testing using as criteria the performance, goals, and other considerations. The interim report include all data collected for each candidate in an evaluation criteria matrix format with access to additional data available, such that SBI net PMO can perform independent evaluation. The interim report shall also include drawings, installation system design and procedures, and maintenance and repair plans. Finally, the interim report should include lessons learned throughout the entire process.

Boeing will be prepared, at the Government's option, to conduct follow-on/additional testing of up to two fence types following the initial test period of performance.

The Government will perform the following:

- Make decisions on major issues/risks impacting the project, unless delegated to authorized representative;
- Select Test Lab Site(s);
Pay for use of the facility and test phase related costs incurred by the test lab;
- Solicit involvement from other government agencies and labs;
- Make final decisions on any fence/barrier solution and follow on action (i.e., including additional tests, etc).

- Provide design specifications for Government directed solutions such as CBP railway barrier

Optionally, the government may request additional analysis, testing, and engineering services to further define fencing unknowns, reduce risk, or consider other alternatives.

2 Performance Criteria

Performance criteria for the fence/barrier:

(b) (7)(E)		Test
2	Capability to deploy 1 (one) mile per day with a minimum of 0.25 miles per day in flat terrain	Analysis
3	Not easily climbed over or penetrated by a pedestrian	Demo/Analysis
4	Ability to survive temperatures applicable to the southwestern border of the U.S. including diurnal and seasonal extremes	Test/Analysis
5	Ability to see through the fence with the human eye	Demo/Analysis
6	Applicable to desert, mountain, open range, remote regions, and forest preferred and must at a minimum be applicable to desert and open range	Analysis
7	Producible/Deployable at a minimum rate of 250 miles per year, and over 700 miles of southwest border terrain	Analysis

1	Minimize total cost and maximize ability to deploy rapidly	Analysis
2	Minimize crew size required to install and to maintain	Analysis
3	Fence height goal of 12 ft with a minimum of 8 ft	Inspection
4	Require no water for concrete at installation site	Demo/Analysis/ Inspection
	Mean time between planned maintenance of 10 years with a minimum of 5 years between planned maintenance intervals	Analysis
6	Maximum expected life and manufacturer's warranty	Analysis
7	Ability to withstand a maximum sustained wind speed of 70 mph	Analysis
8	Be made from readily available materials or parts	Analysis
	Have a configuration, which cannot be easily breached by "bridging"	Demo/Analysis/ Inspection
	Permits water and debris to flow freely and not allow ponding on either side of the border	Test/Analysis
	Allows migration of species, has minimal impact on habitat, and animal dwelling patterns	Analysis
12	Minimal environmental impact	Analysis

3 Performance Work Statement (PWS) Task Areas

3.a Fence Test Project Coordination; On-site Scheduling, Coordination, and Administration

Boeing shall provide services required to implement a successful test program, including, but not limited to:

- Provide subject matter experts and engineering services as requested by SBInet (i.e., cost estimates, requirements development, evaluation criteria, etc.);
- Coordinate test & evaluation plan development;
- Solicit suppliers/identify existing solutions (from private and government sources) that meet the SBInet performance criteria and other considerations;
- Select vendors/solutions with government approval for testing and evaluation based on performance criteria and other considerations (i.e., user fees, etc.);
- Solicit/select vendors to implement up to two Government-provided designs for testing

- Coordinate with SBInet PMO, test lab, and project participants (i.e., maintain overall schedule identifying major tasks, deliverables, and deadlines for coordinating/receiving input from various parties and providing requirements for site preparation, construction, testing, verification, and dismantling to suppliers and test lab);
- Provide on-site management, coordination, and oversight (with the PMO and test lab staff) of site preparation, construction, testing, verification, and dismantlement activities performed at the test lab;
- Conduct necessary preparation activities with fence providers to deliver materials;
- Prepare site for fence installations, deliver fences/barriers, construct fence/barriers, and prepare for testing (i.e., coordinate with test lab);
- Conduct test and evaluation readiness review;
- Support test lab requests for safety and orderly conduct of the testing program and facility;
- Conduct inspection, demonstration, and analysis of fence/barriers in conjunction with facility personnel;
- Dismantle and remove fence/barriers at the conclusion of the performance period (after receiving approval from SBInet PMO);
- Perform verification tasks (i.e., oversee test lab work and perform QA);
- Review preliminary and final test and evaluation results;
- Use existing data to evaluate compliance with existing Federal standards and new or emerging DHS standards (as available and applicable);
- Perform engineering analysis for requirements/goals that cannot be tested, demonstrated, or inspected;
- Estimate total system cost/schedule impacts of fence/barrier solutions, including cost/schedule impacts for any potential intellectual property/copyright/patent releases and user/licensing fees (if applicable and consistent with legal language provided for solicitations);
- Provide interim test and evaluation report to SBInet PMO by the end of Week 8 after ATP based on evaluation criteria agreed to with SBInet PMO (and include evaluation criteria matrix of all data collected for independent analysis). The interim report shall include an evaluation of how well the candidate fence/barriers satisfied and measured against the performance criteria, goals, and other considerations. Document and summarize data and results for each candidate in an evaluation criteria matrix format with access to all additional data.. With the interim report Boeing shall also forward any candidate fence drawings, installation system design and procedures, and maintenance and repair plans. Finally, the interim report should include lessons learned throughout the entire process (to ensure the process for testing and evaluation is sound and efficient for additional candidates in the future).
- The Government shall reserve the right to restrict specific information about designs employed, in the performance of this task order, in prototype or final solutions as "Security Sensitive Information" or as "For Official Use Only (FOUO) for the purpose of protecting information about vulnerabilities, tactical employment methods, and

other characteristics about the fence/barrier system from any third party not deemed by the government to have a valid need to know.

- Provide weekly status reporting and issue/risk tracking and resolution with the SBInet PMO and test lab;
 - Distribute/archive appropriate documents;
 - Conduct closeout meeting.
-

A schedule of tasks for planning purposes is included in Attachment 1.

3.a.1 Business Management

Boeing shall provide Fence Test design descriptions, test and evaluation plan, schedule, budget and performance information (based on the agreed Test and Evaluation Plans) and report schedule variances to the PMO. The Boeing SBInet Business Management representative shall report progress information utilizing reports derived from Boeing's Program Information Management System (PIMS) as part of contract-level Business Team meetings. The results of these meetings shall be reviewed by the PMO and Boeing, and reported as part of the contract-level Monthly Program Reviews.

3.a.2 Supplier Management and Procurement

Boeing shall provide direction for suppliers working on-site. Boeing shall monitor, control, and report the plans, schedules, budgets, and variances associated with suppliers working on the Fence Test project in support of contract-level performance reviews. Boeing shall report on supplier performance.

3.b System Engineering

Boeing shall provide the resources and skills necessary to undertake the implementation, verification, analysis and testing of the capability defined by the test project.

Boeing shall maintain configuration identification, configuration change control, configuration status accounting, and configuration audits of the fence design(s).

3.c Test Documentation

Boeing shall provide a test report at completion of this Task Order documenting verification of all requirements. Boeing shall provide to the COTR a test status on a weekly basis for the test period.

3.d Safety, Security, Environmental Compliance, Worker Compliance Issues

Unless otherwise specified herein, Boeing shall comply with all safety, security, and regulatory compliance terms of the SBInet Indefinite Delivery Indefinite Quantity (IDIQ) contract and the SBInet Program Management Task Order.

4 Deliverables

Boeing shall provide the following written deliverables:

A001	Project Plan	1 week after ATP
A003	Review with SBI net PMO on the evaluation criteria/selection process and the data used to narrow the list of candidates for testing and evaluation	2 weeks after ATP
A002	Test and Evaluation Plan	3 weeks after ATP
A004	Interim Test and Evaluation Report	8 weeks after ATP
A005	Test Review of outcome from the Test and Evaluation Report	8 weeks after ATP
	All vendors drawings, designs, maintenance, and repair plans	8 weeks after ATP
A007	Final Test Report	TBD

Boeing shall provide fence sections to the test site for fence verification testing.

5 Period of Performance End Date

The Period of Performance (POP) End Date for this effort is 11 May 2007.

6 Contracting Officer's Technical Representative (COTR)

The COTR for this Task Order is: (b) (6) (b) (6) fax: (b) (6) and email (b) (6)

7 Travel

Long distance travel is required for the performance of this Task Order. All travel will be in accordance with the IDIQ Contract HSBP1006D01353.

8 Government Furnished Information (GFI), Government Furnished Material (GFM), and Government Furnished Property (GFP), Access to Government Facilities

GFI, GFM, and GFP under this Task Order are in accordance with the below table:

Type	Item	Due to Boeing
Test Facility	Facility Availability	On ATP Date
Test Personnel	Staffing (Lab)	On ATP Date
Facility Test Procedures and Limitations	Example test procedure documents and assistance with coordinating meeting	On ATP Date
Test Equipment	Instrumentation, data processing	On ATP Date
Subject Matter Experts	Government agencies/labs to provide input of existing fence/barriers to Boeing for solicitation/consideration	As Required after ATP

The Government shall provide Boeing with access to Government facilities necessary for the performance of this Task Order.

Attachment 1

Planning schedule for the Fence Test tasks. The target dates shown below are subject to program assumptions (e.g., test facility availability, etc.) and represent an aggressive schedule.

Week	ATP	002	003	004	005	006	007	008	009	0010
ATP	████████									
Develop Test Schedule with Test Site (assume TTI)		██								
Select Barrier Providers with SBInet PMO and Award Subcontracts		████████████████████								
Complete Test Site Evaluations			██							
Initial Test & Evaluation Plans				████████						
Prepare for Fence Deliveries and Installations				████████████████████						
Final Test & Evaluation Plans					████████					
Deliver Fences					████████████████████					
Conduct Test & Evaluation Readiness Review					████████████████████					
Install Fences					████████████████████					
Perform Test & Evaluations					████████████████████					
Interim Test & Evaluation Report										██
Test & Evaluation Review Meeting with SBInet PMO										██
Provide Drawings, Designs, Maintenance & Repair Plans										██

Attachment 2

Planning schedule for the Optional Fence Test tasks. The target dates shown below are subject to program assumptions (e.g., test facility availability, etc.) and represent an aggressive schedule.

Week	ATP	002	0003	0004	0005	0006	0007	008	009	010
ATP	■									
Develop Test Schedule with Test Site (assume TTI)		■								
Select Barrier Providers with SBInet PMO and Award Subcontracts	■									
Complete Test Site Evaluations			■							
Initial Test & Evaluation Plans			■	■						
Prepare for Fence Deliveries and Installations			■	■	■	■	■			
Final Test & Evaluation Plans				■	■					
Deliver Fences				■	■	■	■			
Conduct Test & Evaluation Readiness Review				■	■	■	■			
Install Fences				■	■	■	■	■		
Perform Test & Evaluations				■	■	■	■	■		
Interim Test & Evaluation Report									■	
Test & Evaluation Review Meeting with SBInet PMO									■	
Provide Drawings, Designs, Maintenance & Repair Plans									■	