

110TH CONGRESS
1ST SESSION

H. R. 3916

To provide for the next generation of border and maritime security technologies.

IN THE HOUSE OF REPRESENTATIVES

OCTOBER 22, 2007

Mr. HALL of Texas (for himself, Mr. BARTLETT of Maryland, Mr. BILBRAY, Mr. BROUN of Georgia, Mr. BURGESS, Mr. CONAWAY, Mr. FEENEY, Mr. GINGREY, Mr. GORDON of Tennessee, Mr. INGLIS of South Carolina, Mr. SAM JOHNSON of Texas, Mr. MCCAUL of Texas, Mrs. MYRICK, Mr. NEUGEBAUER, Mr. SENSENBRENNER, Mr. SESSIONS, Mr. SMITH of Nebraska, Mr. WU, Mrs. BIGGERT, and Mr. LAMPSON) introduced the following bill; which was referred to the Committee on Homeland Security, and in addition to the Committee on Science and Technology, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To provide for the next generation of border and maritime security technologies.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. ENSURING RESEARCH ACTIVITIES OF THE DE-**
2 **PARTMENT OF HOMELAND SECURITY IN-**
3 **CLUDE APPROPRIATE CONCEPTS OF OPER-**
4 **ATION.**

5 The Under Secretary for Science and Technology of
6 the Department of Homeland Security (in this Act re-
7 ferred to as the “Under Secretary”) shall ensure that any
8 Federal Government interagency or intra-agency agree-
9 ment to develop and transition new technology explicitly
10 characterizes the requirements, expected use, and concept
11 of operations for that technology, including—

- 12 (1) the manpower needed to effectively operate
13 the technology;
- 14 (2) the expected training requirements; and
- 15 (3) the expected operations and maintenance
16 costs.

17 **SEC. 2. REAUTHORIZATION OF HOMELAND SECURITY**
18 **SCIENCE AND TECHNOLOGY ADVISORY COM-**
19 **MITTEE.**

20 Section 311(j) of the Homeland Security Act of 2002
21 (6 U.S.C. 191(j)) is amended by striking “on December
22 31, 2008” and inserting “on December 31, 2012”.

23 **SEC. 3. REPORT ON BASIC RESEARCH NEEDS FOR BORDER/**
24 **MARITIME SECURITY.**

25 Not later than 3 months after the date of enactment
26 of this Act, the Under Secretary shall enter into an ar-

1 rangement with the National Research Council for an as-
2 sessment of the basic science research needs in the border
3 and maritime security domain. The assessment shall in-
4 clude consideration of—

5 (1) detection, tracking, and identification tech-
6 nologies;

7 (2) personal protective equipment;

8 (3) anticounterfeit technologies; and

9 (4) advanced screening technologies at ports of
10 entry.

11 **SEC. 4. INCORPORATING UNMANNED AERIAL VEHICLES**
12 **INTO BORDER/MARITIME AIRSPACE.**

13 (a) RESEARCH AND DEVELOPMENT.—The Secretary
14 of Homeland Security and the Director of the Joint Plan-
15 ning and Development Office shall research and develop
16 technologies to permit routine operation of unmanned aer-
17 ial vehicles within the national airspace for border and
18 maritime security missions without any degradation of ex-
19 isting levels of safety for all national airspace system
20 users.

21 (b) PILOT PROJECTS.—The Secretary shall coordi-
22 nate with the Administrator of the Federal Aviation Ad-
23 ministration to enter into pilot projects in sparsely popu-
24 lated, low-density Class G air traffic airspace to conduct
25 experiments and collect data in order to accelerate the safe

1 integration of unmanned aircraft systems into the national
2 airspace system.

3 **SEC. 5. ESTABLISHING A RESEARCH PROGRAM IN TUNNEL**
4 **DETECTION.**

5 (a) RESEARCH AND DEVELOPMENT.—The Under
6 Secretary shall research and develop technologies to per-
7 mit detection of near surface voids, such as tunnels, with
8 an emphasis on technologies with real time capability.

9 (b) COORDINATION.—The Secretary of Homeland Se-
10 curity shall coordinate with other appropriate Federal
11 agencies, including the Department of Defense, and en-
12 sure the integration of activities under subsection (a) with
13 relevant efforts of such other agencies and the Depart-
14 ment of Homeland Security’s Centers of Excellence Pro-
15 gram.

16 **SEC. 6. RESEARCH IN ANTICOUNTERFEIT TECHNOLOGIES.**

17 (a) ESTABLISHMENT OF PROGRAM.—The Under Sec-
18 retary and the Director of the National Institute of Stand-
19 ards and Technology shall establish a joint research and
20 development program on anticounterfeit technologies and
21 standards. The program may include development of coun-
22 terfeit-resistant documentation, counterfeit-resistant de-
23 vices, document validation technologies, and document
24 identification standards.

1 (b) COORDINATION.—In carrying out the program in
2 subsection (a), the Under Secretary or his designee shall
3 coordinate with other Federal agencies engaged in similar
4 activities, including Immigration and Customs Enforce-
5 ment, the Department of State, the Department of De-
6 fense, and the Department of Justice.

7 (c) REPORT TO CONGRESS.—Not later than 12
8 months after the date of enactment of this Act, the Under
9 Secretary and the Director of the National Institute of
10 Standards and Technology shall provide to the Committee
11 on Homeland Security and the Committee on Science and
12 Technology of the House of Representatives, and the Com-
13 mittee on Homeland Security and Government Affairs of
14 the Senate, a report detailing the actions taken by the
15 Under Secretary and the Director under this section.

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