

115TH CONGRESS
2D SESSION

S. 2949

To direct the Secretary of Defense to carry out certain activities to ensure the readiness of the Department of Defense with respect to joint electromagnetic spectrum operations.

IN THE SENATE OF THE UNITED STATES

MAY 24, 2018

Mr. PERDUE introduced the following bill; which was read twice and referred to the Committee on Armed Services

A BILL

To direct the Secretary of Defense to carry out certain activities to ensure the readiness of the Department of Defense with respect to joint electromagnetic spectrum operations.

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

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Joint Electromagnetic
5 Spectrum Operations Readiness Act of 2018”.

6 **SEC. 2. FINDINGS.**

7 Congress finds the following:

1 (1) Dominance of the electromagnetic spectrum
2 is central to the success of the National Defense
3 Strategy.

4 (2) The efforts of the Department of Defense
5 to restore its capability to dominate the electro-
6 magnetic spectrum against peer competitors must be
7 accelerated.

8 (3) Despite renewed interest by the Department
9 of Defense and the military services in electronic
10 warfare modernization, the efforts of the Depart-
11 ment lack joint coherence and the unified govern-
12 ance framework necessary to optimize and speed re-
13 search, procurement, sustainment, force develop-
14 ment, and joint interoperability.

15 **SEC. 3. JOINT CAMPAIGN MODELING CAPABILITY.**

16 The Secretary of Defense shall develop and imple-
17 ment a capability to conduct joint campaign modeling for
18 joint electromagnetic spectrum operations. The capability
19 shall be used—

20 (1) to assess the overall effectiveness of such
21 operations;

22 (2) to assess the capability requirements and
23 force sufficiency requirements for such operations;

24 (3) to assess the requirements and resources
25 necessary for electromagnetic battle management to

1 effectively command and control military capabilities
2 required for the conduct of such operations;

3 (4) to assess the requirements and resources
4 necessary to provide coordinated assessment and fu-
5 sion of electromagnetic spectrum data and informa-
6 tion to the joint force required in order to command
7 and control such operations;

8 (5) to inform future budget requests of the De-
9 partment of Defense relating to such operations; and

10 (6) to inform joint adaptive planning activities
11 for such operations.

12 **SEC. 4. ASSESSMENT OF CAPABILITIES AND CAPACITY.**

13 The Secretary of Defense shall conduct an assess-
14 ment of required joint electromagnetic spectrum oper-
15 ations capabilities and capacity based on a review of all
16 level 3 and level 4 contingency plans (as such plans are
17 described in Joint Publication 5–0 of the Joint Chiefs of
18 Staff, titled “Joint Planning” and dated June 16, 2017).

19 **SEC. 5. INTERIM REPORT.**

20 (a) IN GENERAL.—Not later than January 31, 2019,
21 the Secretary of Defense shall submit to the congressional
22 defense committees a report on the readiness of the De-
23 partment of Defense with respect to joint electromagnetic
24 spectrum operations.

1 (b) REPORT DESCRIBED.—The report required under
2 subsection (a) shall include—

3 (1) recommendations regarding the amount of
4 funding required to develop and implement the joint
5 campaign modeling capability under section 3;

6 (2) a copy of the capabilities and capacity as-
7 sessment conducted under section 4;

8 (3) an assessment of the efficacy of existing
9 Department of Defense ranges for experimentation,
10 testing, and training of electromagnetic warfare ca-
11 pabilities, including recommendations regarding the
12 amount of funds required to improve threat simula-
13 tors, instrumentation and data collection, and overall
14 training utility to the extent necessary to achieve
15 readiness in joint electromagnetic spectrum oper-
16 ations;

17 (4) the number of personnel assigned to joint
18 electromagnetic spectrum operations mission activi-
19 ties, including officers, enlisted members, and civil-
20 ian personnel, set forth separately by career field
21 designator and rank for each military service, com-
22 batant command, and defense agency;

23 (5) a comparison of commissioned officer pro-
24 motion rates among the personnel described in para-
25 graph (4), by grade, compared to the average pro-

1 motion rates for commissioned officers, by grade, in
2 each military service, over the five most recent pro-
3 motion cycles completed before the date on which
4 the report is submitted;

5 (6) a description of—

6 (A) the progress of the Department in es-
7 tablishing and operationalizing joint electro-
8 magnetic spectrum operations cells at critical
9 combatant command and joint task force loca-
10 tions; and

11 (B) the resources needed to establish a
12 network to connect an electromagnetic battle
13 management system to multiple sensor and in-
14 telligence data feeds to implement electronic
15 warfare battle management for networked elec-
16 tronic warfare and dynamic reprogramming
17 with automated near real-time capabilities; and

18 (7) an assessment of organizations, human cap-
19 ital, and other resources dedicated to the develop-
20 ment and management of joint electromagnetic spec-
21 trum operations policy, doctrine, concepts, require-
22 ments, capabilities, and activities, which shall in-
23 clude—

24 (A) a review of the mission, alignment, ef-
25 fectiveness and resource efficiency of existing

1 joint organizations with responsibility for such
2 operations such as the the Joint Electronic
3 Warfare Center, the Joint Electromagnetic Pre-
4 paredness for Advanced Combat, the Joint
5 Spectrum Center, the Joint Navigation Warfare
6 Center, and the Electromagnetic Space Analysis
7 Center;

8 (B) a review of the offices within the Joint
9 Staff and the Office of the Secretary of Defense
10 with primary responsibility for joint electro-
11 magnetic spectrum policy and operations; and

12 (C) recommendations for organizational
13 changes to enhance coordination, effectiveness,
14 and resource efficiency with respect to joint
15 electromagnetic spectrum policy and operations
16 across the Department of Defense.

17 **SEC. 6. ANNUAL REPORTS.**

18 (a) IN GENERAL.—Together with budget of the
19 President submitted to Congress under section 1105(a) of
20 title 31, United States Code, for each of fiscal years 2020
21 through 2024, the Secretary of Defense shall submit to
22 the congressional defense committees—

23 (1) an assessment of the readiness and mod-
24 ernization efforts of the Department of Defense with

1 respect to joint electromagnetic spectrum operations;
2 and

3 (2) a description of, and justification for, all
4 funding requests relating to joint electromagnetic
5 spectrum operations, including any funding requests
6 for programs, activities, and personnel associated
7 with such operations.

8 (b) FORM.—Each report under subsection (a) shall
9 be submitted in unclassified form, but may include a clas-
10 sified annex.

11 **SEC. 7. DEFINITIONS.**

12 In this Act:

13 (1) The term “congressional defense commit-
14 tees” has the meaning given that term in section
15 101(a)(16) of title 10, United States Code.

16 (2) The term “electromagnetic battle manage-
17 ment” means the dynamic monitoring, assessing,
18 planning, and directing of joint electromagnetic
19 spectrum operations in support of a military com-
20 mander’s scheme of maneuver.

21 (3) The term “joint electromagnetic spectrum
22 operations” means those activities consisting of elec-
23 tronic warfare and joint electromagnetic spectrum
24 management operations used to exploit, attack, pro-
25 tect, and manage the electromagnetic operational en-

- 1 vironment to achieve a military commander's objec-
- 2 tives.

