

AMENDMENT NO. _____ Calendar No. _____

Purpose: In the nature of a substitute.

IN THE SENATE OF THE UNITED STATES—119th Cong., 2d Sess.

S. 4950

To amend the National Telecommunications and Information Administration Organization Act to codify the Institute for Telecommunication Sciences, to direct the Assistant Secretary of Commerce for Communications and Information to establish an initiative to support the development of emergency communication and tracking technologies, and for other purposes.

Referred to the Committee on _____ and
ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended
to be proposed by Ms. DUCKWORTH (for herself and
Mrs. Blackburn)

Viz:

1 Strike all after the enacting clause and insert the fol-
2 lowing:

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Institute for Tele-
5 communication Sciences Codification Act” or the “ITS
6 Codification Act”.

7 **SEC. 2. INSTITUTE FOR TELECOMMUNICATION SCIENCES.**

8 Part A of the National Telecommunications and In-
9 formation Administration Organization Act (47 U.S.C.

1 901 et seq.) is amended by adding at the end the fol-
2 lowing:

3 **"SEC. 106. INSTITUTE FOR TELECOMMUNICATION**
4 **SCIENCES.**

5 "(a) ESTABLISHMENT.—

6 "(1) IN GENERAL.—Under the authority pro-
7 vided to the Assistant Secretary under section 103,
8 the Assistant Secretary shall operate a test center to
9 be known as the Institute for Telecommunication
10 Sciences (in this section referred to as 'ITS').

11 "(2) FUNCTIONS.—

12 "(A) IN GENERAL.—In addition to any
13 functions delegated by the Assistant Secretary
14 under subparagraph (B), ITS shall serve as the
15 primary laboratory for the executive branch of
16 the Federal Government to—

17 "(i) study radio frequency emissions,
18 including technologies and techniques to
19 control such emissions and interference
20 caused by such emissions;

21 "(ii) determine spectrum propagation
22 characteristics;

23 "(iii) conduct tests on technology that
24 enhances the sharing of electromagnetic

1 spectrum between Federal and non-Federal
2 users;

3 “(iv) improve the interference toler-
4 ance of Federal systems operating with, or
5 using, Federal spectrum;

6 “(v) promote activities relating to ac-
7 cess to Federal spectrum by non-Federal
8 users and the sharing of Federal spectrum
9 between Federal and non-Federal users;
10 and

11 “(vi) conduct such other activities as
12 determined necessary by the Assistant Sec-
13 retary.

14 “(B) ADDITIONAL FUNCTIONS.—The As-
15 sistant Secretary may delegate to ITS any of
16 the functions assigned to the Assistant Sec-
17 retary under section 103(b)(1).

18 “(3) AGREEMENTS AND TRANSACTIONS.—In
19 carrying out the functions described in paragraph
20 (2), the Assistant Secretary, acting through the head
21 of ITS, may enter into agreements as provided
22 under the following authorities:

23 “(A) Sections 11 and 12 of the Stevenson-
24 Wydler Technology Innovation Act of 1980 (15
25 U.S.C. 3710; 3710a).

1 “(B) Section 1535 of title 31, United
2 States Code.

3 “(C) Sections 207 and 209 of title 35,
4 United States Code.

5 “(D) Section 103(b)(2) of this Act.

6 “(E) Section 113(g) of this Act.

7 “(F) The first undesignated section of
8 Public Law 91-412.

9 “(G) Any authorization in any other Fed-
10 eral statute.

11 “(4) FEDERAL SPECTRUM DEFINED.—In this
12 subsection, the term ‘Federal spectrum’ means fre-
13 quencies assigned on a primary basis to a Federal
14 entity (as defined in section 113(l)).

15 “(b) EMERGENCY COMMUNICATION AND TRACKING
16 TECHNOLOGIES INITIATIVE.—

17 “(1) ESTABLISHMENT.—The Assistant Sec-
18 retary, acting through the head of ITS, shall estab-
19 lish an initiative to support the development of
20 emergency communication and tracking technologies
21 for use in locating trapped individuals in confined
22 spaces, such as underground mines, and other
23 shielded environments, such as high-rise buildings or
24 collapsed structures, where conventional radio com-
25 munication is limited.

1 “(2) ACTIVITIES.—In order to carry out this
2 subsection, the Assistant Secretary, acting through
3 the head of ITS, shall work with private sector enti-
4 ties and the heads of appropriate Federal agencies,
5 to—

6 “(A) perform a needs assessment to iden-
7 tify and evaluate the measurement, technical
8 specifications, and conformity assessment needs
9 required to improve the operation and reliability
10 of such emergency communication and tracking
11 technologies; and

12 “(B) support the development of technical
13 specifications and conformance architecture to
14 improve the operation and reliability of such
15 emergency communication and tracking tech-
16 nologies.

17 “(3) REPORT.—Not later than 18 months after
18 the date of the enactment of this section, the Assist-
19 ant Secretary shall submit to Congress, and make
20 publicly available, a report on the assessment per-
21 formed under paragraph (2)(A).”.