

Udall 1 Modified

Tom Udall

1 Purpose: To provide innovation, investment, and economic growth by accelerating spectrum
2 efficiency through a challenge prize competition.

5 S. _____2555

7 To provide opportunities for broadband investment, and for
8 other purposes.

10 Referred to the Committee on _____ and ordered to be
11 printed

12 Ordered to lie on the table and to be printed

13 AMENDMENT INTENDED TO BE PROPOSED BY MR. UDALL

14 Viz:

15 At the appropriate place, insert the following:

16 SEC. __. SPECTRUM CHALLENGE PRIZE.

17 (a) Findings.—Congress finds the following:

18 (1) The future competitiveness and global technology leadership of the United States
19 depend, in part, upon the availability and efficient use of spectrum.

20 (2) Dramatic improvement in spectrum efficiency would spur innovation, investment, and
21 economic growth.

22 (3) Radio frequency spectrum is vital for emergency communications, national security,
23 law enforcement, aviation, maritime safety, space communications, and numerous other
24 Federal functions.

25 (4) Prize competitions can spur innovation in the private and public sectors.

26 (b) Definition.—In this section, the term “prize competition” means a prize competition
27 conducted by the Secretary under subsection (c)(1).

28 (c) Spectrum Challenge Prize.—

29 (1) IN GENERAL.—The Secretary, ~~acting through~~ **in consultation with** the Assistant
30 Secretary of Commerce for Communications and Information and ~~in consultation with~~ the
31 Under Secretary of Commerce for Standards and Technology, shall, subject to the
32 availability of funds for prize competitions under this section —

33 (A) conduct prize competitions to dramatically accelerate the development and
34 commercialization of technology that improves spectrum efficiency and is capable of

1 cost-effective deployment; and

2 (B) define a measurable set of performance goals for participants in the prize
3 competitions to demonstrate their solutions on a level playing field while making a
4 significant advancement over the current state of the art.

5 (2) AUTHORITY OF SECRETARY.—In carrying out paragraph (1), the Secretary may—

6 (A) enter into a grant, contract, cooperative agreement, or other agreement with a
7 private sector for-profit or nonprofit entity to administer the prize competitions;

8 (B) invite the Defense Advanced Research Projects Agency, the Commission, the
9 National Aeronautics and Space Administration, the National Science Foundation, or
10 any other Federal agency to provide advice and assistance in the design or
11 administration of the prize competitions; ~~and~~

12

13 (C) award not more than \$5,000,000, in the aggregate, to the winner or winners of
14 the prize competitions; ~~and~~

15 ~~(D) request amounts from the Spectrum Relocation Fund established under~~
16 ~~section 118 of the National Telecommunications and Information Administration~~
17 ~~Organization Act (47 U.S.C. 928).~~

18

19 (d) Criteria.—Not later than ~~180~~⁹⁰ days after the date on which funds for prize competitions
20 are made available pursuant to this section of enactment of this Act, the Commission shall
21 publish a technical paper on spectrum efficiency providing criteria that may be used for the
22 design of the prize competitions.

23 (e) Authorization of Appropriations.—There are authorized to be appropriated such sums as
24 may be necessary to carry out this section.