110TH CONGRESS 1ST SESSION H.R. 3445

To establish the Weather Mitigation Operations and Research Board, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

August 3, 2007

Mr. UDALL of Colorado introduced the following bill; which was referred to the Committee on Science and Technology

A BILL

To establish the Weather Mitigation Operations and Research Board, and for other purposes.

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 "Weather Mitigation
5 Research and Technology Transfer Authorization Act of
6 2007".

7 SEC. 2. PURPOSE.

8 It is the purpose of this Act to develop and implement

9 a comprehensive and coordinated national weather mitiga-

tion policy and a national cooperative Federal and State
 program of weather mitigation research and development.

3 SEC. 3. DEFINITIONS.

4 In this Act:

5 (1) BOARD.—The term "Board" means the
6 Weather Mitigation Advisory and Research Board.

7 (2) EXECUTIVE DIRECTOR.—The term "Execu8 tive Director" means the Executive Director of the
9 Weather Mitigation Advisory and Research Board.

(3) RESEARCH AND DEVELOPMENT.—The term 10 "research and development" means theoretical anal-11 12 ysis, exploration, experimentation, and the extension 13 of investigative findings and theories of scientific or 14 technical nature into practical application for experi-15 mental and demonstration purposes, including the 16 experimental production and testing of models, de-17 vices, equipment, materials, and processes.

18 (4) WEATHER MITIGATION.—The term "weath-19 er mitigation" means changing or controlling, or at-20 tempting to change or control, by artificial methods 21 the natural development of atmospheric cloud forms 22 or precipitation forms which occur in the tropo-23 sphere. Examples include rain enhancement, 24 snowpack augmentation, and hail suppression.

SEC. 4. WEATHER MITIGATION ADVISORY AND RESEARCH
BOARD ESTABLISHED.
(a) IN GENERAL.—There is established in the De-
partment of Commerce the Weather Mitigation Advisory
and Research Board.
(b) Membership.—
(1) IN GENERAL.—The Board shall consist of
11 members appointed by the Secretary of Com-
merce, of whom—
(A) at least 1 shall be a representative of
the American Meteorological Society;
(B) at least 1 shall be a representative of
the American Society of Civil Engineers;
(C) at least 1 shall be a representative of
the National Academy of Sciences;
(D) at least 1 shall be a representative of
the National Center for Atmospheric Research
of the National Science Foundation;
(E) at least 2 shall be representatives of
the National Oceanic and Atmospheric Admin-
istration of the Department of Commerce;
(F) at least 1 shall be a representative of
institutions of higher education or research in-
stitutes; and

(G) at least 1 shall be a representative of 1 2 a State that is currently supporting operational 3 weather mitigation projects. 4 (2) TENURE.—A member of the Board serves 5 at the pleasure of the Secretary of Commerce. 6 (3) VACANCIES.—Any vacancy on the Board 7 shall be filled in the same manner as the original ap-8 pointment. 9 (b) ADVISORY COMMITTEES.—The Board may estab-10 lish advisory committees to advise the Board and to make 11 recommendations to the Board concerning legislation, poli-12 cies, administration, research, and other matters. 13 (c) INITIAL MEETING.—Not later than 30 days after the date on which all members of the Board have been 14 15 appointed, the Board shall hold its first meeting. 16 (d) MEETINGS.—The Board shall meet at the call of the Chair. 17 18 (e) QUORUM.—A majority of the members of the 19 Board shall constitute a quorum, but a lesser number of 20 members may hold hearings. 21 (f) CHAIR AND VICE CHAIR.—The Board shall select 22 a Chair and Vice Chair from among its members. 23 SEC. 5. DUTIES OF THE BOARD. 24 (a) PROMOTION OF RESEARCH AND DEVELOP-

4

25 MENT.—In order to assist in expanding the theoretical

and practical knowledge of weather mitigation, the Board
 shall promote and fund research and development, studies,
 and investigations with respect to—

4 (1) improved forecast and decisionmaking tech5 nologies for weather mitigation operations, including
6 tailored computer workstations and software and
7 new observation systems with remote sensors; and

8 (2) assessments and evaluations of the efficacy
9 of weather mitigation, both purposeful (including
10 cloud-seeding operations) and inadvertent (including
11 downwind effects and anthropogenic effects).

(b) FINANCIAL ASSISTANCE.—Unless the use of the
money is restricted or subject to any limitations provided
by law, the Board shall use amounts in the Weather Mitigation Research and Development Fund—

16 (1) to pay its expenses in the administration of17 this Act; and

(2) to provide for research and development
with respect to weather mitigation by grants to, or
contracts or cooperative arrangements with, public
or private agencies.

(c) REPORT.—The Board shall submit to the Secretary of Commerce biennially a report on its findings and
research results.

1 SEC. 6. POWERS OF THE BOARD.

2 (a) STUDIES, INVESTIGATIONS, AND HEARINGS.—
3 The Board may make any studies or investigations, obtain
4 any information, and hold any hearings necessary or prop5 er to administer or enforce this Act or any rules or orders
6 issued under this Act.

7 (b) PERSONNEL.—The Board may employ, as pro8 vided for in appropriations Acts, an Executive Director
9 and other support staff necessary to perform duties and
10 functions under this Act.

(c) COOPERATION WITH OTHER AGENCIES.—The
Board may cooperate with public or private agencies to
promote the purposes of this Act.

(d) COOPERATIVE AGREEMENTS.—The Board may
enter into cooperative agreements with the head of any
department or agency of the United States, an appropriate
official of any State or political subdivision of a State, or
an appropriate official of any private or public agency or
organization for conducting weather mitigation activities
or cloud-seeding operations.

(e) CONDUCT AND CONTRACTS FOR RESEARCH AND
DEVELOPMENT.—The Executive Director, with the approval of the Board, may conduct and may contract for
research and development activities relating to the purpose
described in section 2.

1 SEC. 7. COOPERATION WITH THE WEATHER MITIGATION 2 OPERATIONS AND RESEARCH BOARD.

The heads of the departments and agencies of the United States and the heads of any other public or private agencies and institutions that receive research funds from the United States shall, to the extent possible, give full support and cooperation to the Board and to initiate independent research and development programs that address weather mitigations.

10 SEC. 8. FUNDING.

(a) IN GENERAL.—There is established within the
Treasury of the United States the Weather Mitigation Research and Development Fund, which shall consist of
amounts appropriated pursuant to subsection (b) or received by the Board under subsection (c).

16 (b) AUTHORIZATION OF APPROPRIATIONS.—There 17 are authorized to be appropriated to the Board for the 18 purposes of carrying out this Act \$10,000,000 for each 19 of fiscal years 2006 through 2015. Any sums appropriated 20 under this subsection shall remain available, without fiscal 21 year limitation, until expended.

(c) GIFTS.—The Board may accept, use, and disposeof gifts or donations of services or property.