

107TH CONGRESS
1ST SESSION

H. R. 3178

To authorize the Environmental Protection Agency to provide funding to support research, development, and demonstration projects for the security of water infrastructure.

IN THE HOUSE OF REPRESENTATIVES

OCTOBER 30, 2001

Mr. BOEHLERT (for himself, Mr. BAIRD, Mr. EHLERS, Mr. BARCIA, Mrs. MORELLA, Mr. WELDON of Pennsylvania, Mr. FORBES, and Mrs. WILSON) introduced the following bill; which was referred to the Committee on Science

A BILL

To authorize the Environmental Protection Agency to provide funding to support research, development, and demonstration projects for the security of water infrastructure.

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 “Water Infrastructure
5 Security and Research Development Act”.

6 **SEC. 2. DEFINITIONS.**

7 For purposes of this Act—

1 (1) the term “Administrator” means the Ad-
2 ministrator of the Environmental Protection Agency;

3 (2) the term “research organization” means a
4 public or private nonprofit institution or entity, in-
5 cluding a national laboratory, university, or associa-
6 tion of water management professionals, or a consor-
7 tium of such institutions or entities, that conducts
8 research to improve the security of water supply sys-
9 tems; and

10 (3) the term “water supply system” means a
11 public water system, as defined in section 1401(4) of
12 the Safe Drinking Water Act (42 U.S.C. 300f(4)),
13 and a treatment works, as defined in section 212 of
14 the Federal Water Pollution Control Act (33 U.S.C.
15 1292), that is publicly owned or principally treating
16 municipal waste water or domestic sewage.

17 **SEC. 3. WATER SUPPLY SYSTEM SECURITY RESEARCH AS-**
18 **SISTANCE.**

19 (a) IN GENERAL.—The Administrator, in consulta-
20 tion and coordination with other relevant Federal agen-
21 cies, shall establish a program of research, development,
22 and demonstration activities to achieve short-term and
23 long-term improvements to technologies and related proc-
24 esses for the security of water supply systems. In carrying
25 out the program, the Administrator shall make grants to

1 or enter into cooperative agreements with research organi-
2 zations.

3 (b) PROJECTS.—Awards provided under this section
4 shall be used by a research organization to—

5 (1) conduct research related to or develop vul-
6 nerability assessment technologies and related proc-
7 esses for water supply systems to assess physical
8 vulnerabilities (including biological, chemical, and
9 radiological contamination) and information systems
10 vulnerabilities;

11 (2) conduct research related to or develop tech-
12 nologies and related processes for protecting the
13 physical assets and information systems of water
14 supply systems from threats;

15 (3) develop programs for disseminating the re-
16 sults of research, development, and demonstration to
17 the public to increase awareness of the nature and
18 extent of threats to water supply systems, and to
19 managers of water supply systems to increase the
20 use of technologies and related processes for re-
21 sponding to those threats;

22 (4) demonstrate and assess upgraded security
23 technologies and related processes for water supply
24 systems, and determine operational and cost impacts
25 of the application of enhanced security measures;

1 (5) develop guidelines, standards, and proce-
2 dures providing for physical and information systems
3 security at water supply systems;

4 (6) conduct research related to or develop real-
5 time monitoring systems to protect against chemical,
6 biological, and radiological attacks;

7 (7) conduct research related to or develop tech-
8 nologies and related processes for mitigation of, re-
9 sponse to, and recovery from biological, chemical,
10 and radiological contamination of water supply sys-
11 tems; or

12 (8) carry out other research, development, and
13 demonstration activities the Administrator considers
14 appropriate, including information sharing and anal-
15 ysis, to improve the security of water supply sys-
16 tems.

17 (c) GUIDELINES, PROCEDURES, AND CRITERIA.—

18 (1) REQUIREMENT.—The Administrator shall,
19 in consultation with representatives of relevant Fed-
20 eral and State agencies, water supply systems, and
21 other appropriate public and private entities, publish
22 application and selection guidelines, procedures, and
23 criteria for awards under this section.

24 (2) REPORT TO CONGRESS.—Not later than 90
25 days before publication under paragraph (1), the

1 Administrator shall transmit to the Committee on
2 Science of the House of Representatives and the
3 Committee on Environment and Public Works of the
4 Senate the guidelines, procedures, and criteria pro-
5 posed to be published under paragraph (1).

6 (3) DIVERSITY OF AWARDS.—The Adminis-
7 trator shall ensure that, to the maximum extent
8 practicable, awards under this section are made for
9 a wide variety of projects described in subsection (b)
10 and are provided to geographically diverse recipients.

11 (4) SECURITY.—The Administrator shall in-
12 clude as a condition for receiving an award under
13 this section requirements to ensure that the recipient
14 has in place appropriate security measures regarding
15 the entities and individuals who carry out research,
16 development, and demonstration activities under the
17 award.

18 (5) DISSEMINATION.—The Administrator shall
19 include as a condition for receiving an award under
20 this section requirements to ensure the appropriate
21 dissemination of the results of activities carried out
22 under the award.

23 (d) COST SHARING.—

24 (1) DEMONSTRATION.—The Administrator shall
25 require at least 50 percent of the costs directly and

1 specifically related to any demonstration project
2 under this Act to be provided from non-Federal
3 sources. The Administrator may reduce the non-
4 Federal requirement under this paragraph if the Ad-
5 ministrator determines that the reduction is nec-
6 essary and appropriate considering the technological
7 risks involved in the project and is necessary to meet
8 the objectives of this Act.

9 (2) CALCULATION OF AMOUNT.—In calculating
10 the amount of the non-Federal commitment under
11 paragraph (1), the Administrator may include per-
12 sonnel, services, equipment, and other resources.

13 **SEC. 4. AUTHORIZATION OF APPROPRIATIONS.**

14 (a) IN GENERAL.—There are authorized to be appro-
15 priated to the Administrator to carry out this Act
16 \$12,000,000 for each of the fiscal years 2002, 2003, 2004,
17 2005, and 2006.

18 (b) AVAILABILITY.—Funds appropriated under sub-
19 section (a) shall remain available until expended.

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