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(Original Signature of Member)

117TH CONGRESS  
1ST SESSION

**H. R.** \_\_\_\_\_

To direct that certain assessments with respect to toxicity of chemicals be carried out by the program offices of the Environmental Protection Agency, and for other purposes.

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IN THE HOUSE OF REPRESENTATIVES

Mr. BIGGS introduced the following bill; which was referred to the Committee on \_\_\_\_\_

\_\_\_\_\_  
**A BILL**

To direct that certain assessments with respect to toxicity of chemicals be carried out by the program offices of the Environmental Protection Agency, 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 "Improving Science in  
5 Chemical Assessments Act".

1 **SEC. 2. RESEARCH NEEDS AND PRIORITIES OF EPA PRO-**  
2 **GRAM OFFICES.**

3 The Environmental Research, Development, and  
4 Demonstration Authorization Act is amended by striking  
5 section 7 (42 U.S.C. 4364) and inserting the following:

6 **"SEC. 7. RESEARCH NEEDS AND PRIORITIES OF EPA PRO-**  
7 **GRAM OFFICES.**

8 "(a) IN GENERAL.—The Administrator of the Envi-  
9 ronmental Protection Agency shall assure that the expend-  
10 iture of any funds appropriated pursuant to this Act or  
11 any other provision of law for environmental research and  
12 development related to regulatory program activities shall  
13 be coordinated with and reflect the research needs and pri-  
14 orities of the relevant program offices, as well as the over-  
15 all research needs and priorities of the Agency, including  
16 those defined in the five-year research plan.

17 "(b) HAZARD IDENTIFICATION AND DOSE-RESPONSE  
18 ASSESSMENTS.—Beginning on the date of the enactment  
19 of the Improving Science in Chemical Assessments Act,  
20 any covered assessments carried out with respect to a  
21 chemical substance through the Integrated Risk Informa-  
22 tion System program of the Environmental Protection  
23 Agency as of the day before such date of enactment shall,  
24 in lieu of being carried out through such program, be car-  
25 ried out by the relevant program office of the Environ-  
26 mental Protection Agency, so long as the relevant program

1 office determines there is a need for such an assessment.  
2 Such an assessment shall be carried out using the sci-  
3 entific standards specified in section 7B and be based on  
4 the weight of the scientific evidence.

5 “(c) TOXICITY VALUES.—In carrying out a covered  
6 assessment with respect to a chemical substance under  
7 subsection (a), the relevant program office shall assign a  
8 toxicity value or values, when scientifically supported by  
9 the available data, for such chemical substance. With re-  
10 spect to that assignment, the following shall apply:

11 “(1) When supported by the available data, the  
12 toxicity value or values shall include a range of point  
13 estimates of risk as well as sources and magnitudes  
14 of uncertainty associated with the estimates.

15 “(2) When multiple point estimates can be de-  
16 veloped, the relevant program office shall—

17 “(A) consider all datasets; and

18 “(B) make a determination about how best  
19 to represent the human health risk posed by the  
20 chemical substance involved.

21 “(d) CHEMICAL ASSESSMENT DATABASE.—

22 “(1) IN GENERAL.—A toxicity value or values  
23 assigned to a chemical substance under subsection  
24 (c) shall be included in a chemical assessment data-  
25 base to be maintained by the Office of Research and

1 Development of the Environmental Protection Agen-  
2 cy.

3 “(2) COMPLETED ASSESSMENTS.—All covered  
4 assessments stored, as of the date of the enactment  
5 of this Act, in the IRIS database of the Environ-  
6 mental Protection Agency shall be retained in the  
7 chemical assessment database established pursuant  
8 to paragraph (1).

9 “(3) UPDATES.—Such database shall be up-  
10 dated pursuant to a covered assessment performed  
11 by a relevant program office, including to make a  
12 change in the existing toxicity value or values for a  
13 chemical substance included in such database.

14 “(e) CERTIFICATION.—Beginning 2 years after the  
15 date of the enactment of the Improving Science in Chem-  
16 ical Assessments Act and every 2 years thereafter, the Of-  
17 fice of Research and Development of the Environmental  
18 Protection Agency shall submit to the Committee on  
19 Science, Space, and Technology and the Committee on  
20 Energy and Commerce of the House of Representatives  
21 and the Committee on Environment and Public Works of  
22 the Senate, a report containing a certification that each  
23 covered assessment completed during the period covered  
24 by the report was conducted using the scientific standards  
25 specified in section 7B.

1           “(f) DEFINITIONS.—In this section, section 7A, and  
2 section 7B:

3           “(1) The term ‘covered assessment’ means, with  
4 respect to the evaluation of the human health effects  
5 resulting from chronic exposure to a chemical sub-  
6 stance, a chemical hazard identification and dose-re-  
7 sponse assessment (as such terms are defined by the  
8 Environmental Protection Agency on the day before  
9 the date of the enactment of this Act).

10           “(2) The term ‘relevant program office’ in-  
11 cludes the following offices of the Environmental  
12 Protection Agency:

13                   “(A) The Office of Water.

14                   “(B) The Office of Air and Radiation.

15                   “(C) The Office of Land and Emergency  
16 Management.

17                   “(D) The Office of Chemical Safety and  
18 Pollution Prevention.

19                   “(E) Any successor to an office specified in  
20 subparagraphs (A) through (D) and any other  
21 office determined to be relevant by the Adminis-  
22 trator of the Environmental Protection Agency.

1 **"SEC. 7A. HAZARD IDENTIFICATION AND DOSE-RESPONSE**  
2 **STEERING COMMITTEE.**

3       “(a) **ESTABLISHMENT.**—Not later than 30 days after  
4 the date of the enactment of the Improving Science in  
5 Chemical Assessments Act, the Administrator of the Envi-  
6 ronmental Protection Agency shall establish a chemical  
7 hazard identification and dose-response steering com-  
8 mittee (referred to in this Act as the ‘steering committee’)  
9 to coordinate the conduct of covered assessments by rel-  
10 evant program offices for purposes of ensuring that, with  
11 respect to such assessments, there is no duplication of ef-  
12 fort by such offices.

13       “(b) **DUTY.**—The duties of the steering committee  
14 are the following:

15               “(1) If the steering committee learns that more  
16 than one relevant program office intends to conduct  
17 covered assessments with respect to the same chem-  
18 ical substance, the steering committee shall deter-  
19 mine the most effective means of carrying out a sin-  
20 gle covered assessment to prevent duplication of ef-  
21 fort by such offices.

22               “(2) For purposes of supplementing a covered  
23 assessment, the steering committee shall consider  
24 any third-party assessment of a chemical substance  
25 generated by another Federal, State, or inter-  
26 national agency or agencies or members of the sci-

1       entific community that meets the requirements spec-  
2       ified in subsection (e).

3       “(c) CHAIR; COMPOSITION.—

4           “(1) CHAIR.—The steering committee shall be  
5       chaired by the Assistant Administrator of the Office  
6       of Research and Development of the Environmental  
7       Protection Agency.

8           “(2) COMPOSITION.—The steering committee  
9       shall be composed of 15 members, all of whom shall  
10      be active, full-time employees of the Environmental  
11      Protection Agency, with at least one member rep-  
12      resenting each relevant program office and each re-  
13      gional office of the Environmental Protection Agen-  
14      cy. The members of the steering committee shall be  
15      appointed by the Administrator of the Environ-  
16      mental Protection Agency. Any vacancy shall be  
17      filled in the same manner as the initial appointment.

18      “(d) MEETINGS.—The steering committee shall meet  
19      at least once each calendar year.

20      “(e) THIRD-PARTY ASSESSMENT REQUIREMENTS.—

21      The requirements specified in this subsection with respect  
22      to a third-party assessment of a chemical substance are  
23      that the assessment—

24           “(1) is conducted using scientific standards  
25      specified in section 7B;

1           “(2) has undergone independent scientific re-  
2 view for transparency, completeness, and quality;  
3 and

4           “(3) reflects the best available science and the  
5 weight of the available scientific evidence.

6 **“SEC. 7B. SCIENTIFIC STANDARDS.**

7           “Covered assessments carried out under section 7  
8 and discussion of such assessments and review of third-  
9 party assessments carried out under section 7A, shall be  
10 conducted using scientific information, technical proce-  
11 dures, measures, methods, protocols, methodologies, or  
12 models in a manner consistent with the best available  
13 science. In carrying out such an assessment, the relevant  
14 program office shall integrate all lines of scientific evi-  
15 dence and consider, as applicable—

16           “(1) the extent to which the scientific informa-  
17 tion, technical procedures, measures, methods, proto-  
18 cols, methodologies, or models employed to generate  
19 the scientific information are reasonable for and con-  
20 sistent with the intended use of the scientific infor-  
21 mation;

22           “(2) the extent to which the scientific informa-  
23 tion is relevant for the relevant program office’s use  
24 in making a decision about a chemical substance;



1           “(3) the degree of clarity and completeness with  
2           which the data, assumptions, methods, quality assur-  
3           ance, analyses employed to generate the scientific in-  
4           formation are documented and publicly available in  
5           a manner that honors legal and ethical obligations to  
6           reduce the risks of unauthorized disclosure and re-  
7           identification;

8           “(4) the extent to which the variability and un-  
9           certainty in the scientific information, or in the pro-  
10          cedures, measures, methods, protocols, methodolo-  
11          gies, or models, are evaluated and characterized;

12          “(5) the extent of independent verification or  
13          peer review of the scientific information or of the  
14          procedures, measures, methods, protocols, meth-  
15          odologies, or models;

16          “(6) the ability of the scientific findings and re-  
17          search to be replicated or reproduced; and

18          “(7) the extent to which the available scientific  
19          information supports dose-response modeling, using  
20          non-linear approaches.”.