

**AMENDMENT TO THE AMENDMENT IN THE NATURE
OF A SUBSTITUTE TO H.R. 3593
OFFERED BY MS. LOFGREN OF CALIFORNIA**

Page 43, after line 1, insert the following (and re-designate subsequent sections accordingly):

1 SEC. 5. SUPERCOMPUTING FOR SAFER CHEMICALS
2 (SUPERSAFE) CONSORTIUM.

3 (a) ESTABLISHMENT.—

4 (1) IN GENERAL.—The Administrator of the
5 Environmental Protection Agency, in collaboration
6 with the Secretary of Energy, the Secretary of
7 Labor, the Secretary of Health and Human Services,
8 the Director of the National Toxicology Program,
9 and the heads of any other relevant Federal agen-
10 cies, shall form a consortium, to be known as the
11 “Supercomputing for Safer Chemicals
12 (SUPERSAFE) Consortium” (referred to in this
13 section as the “Consortium”).

14 (2) INCLUSION OF STATE AGENCIES.—The Sec-
15 retary shall allow the head of a relevant State agen-
16 cy to join the Consortium on request of the State
17 agency.

18 (b) CONSORTIUM ACTIVITIES.—

1 (1) IN GENERAL.—The Consortium, working
2 through the National Laboratories and public re-
3 search institutions, shall use supercomputing and
4 other similar capabilities—

5 (A) to establish rapid approaches for large-
6 scale identification of toxic substances and the
7 development of safer alternatives to toxic sub-
8 stances by developing and validating computa-
9 tional toxicology methods based on unique high-
10 performance computing, artificial intelligence,
11 machine learning, and precision measurements;

12 (B) to transition to a more circular econ-
13 omy and cleaner energy by expanding knowl-
14 edge to shift the market for toxic substances
15 and products toward safe-by-design alternatives;
16 and

17 (C) to address the burdens of—

18 (i) environmental toxic substance ex-
19 posures in disadvantaged communities;

20 (ii) greater toxic substance use in
21 products targeted towards those commu-
22 nities; and

23 (iii) exposure to toxic substances at
24 Department of Energy facilities.

1 (2) MODELS.—In carrying out paragraph (1),
2 the Consortium shall use supercomputers to develop,
3 validate, and run models to predict adverse health
4 effects caused by toxic substances.

5 (c) AUTHORIZATION OF APPROPRIATIONS.—There is
6 authorized to be appropriated to the Secretary to carry
7 out this section—

8 (1) for fiscal year 2022, \$20,000,000;
9 (2) for fiscal year 2023, \$30,000,000; and
10 (3) for each fiscal years 2024 through 2026,
11 \$35,000,000.

