

116TH CONGRESS  
1ST SESSION

# H. R. 2351

To direct the Administrator of the Federal Aviation Administration to conduct a study relating to ultrafine particles, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

APRIL 22, 2019

Mr. SMITH of Washington (for himself, Ms. JAYAPAL, Mr. TED LIEU of California, Ms. SCHAKOWSKY, Mr. LYNCH, Mr. SUOZZI, and Ms. JACKSON LEE) introduced the following bill; which was referred to the Committee on Transportation and Infrastructure

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## A BILL

To direct the Administrator of the Federal Aviation Administration to conduct a study relating to ultrafine particles, 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 “Protecting Airport  
5 Communities from Particle Emissions Act”.

6 **SEC. 2. AIRBORNE ULTRAFINE PARTICLE STUDY.**

7 (a) IN GENERAL.—The Administrator of the Federal  
8 Aviation Administration shall enter into appropriate ar-

1 rangements with the National Academy of Sciences to a  
2 conduct a study that—

3 (1) summarizes the relevant literature and  
4 studies done on airborne ultrafine particles world-  
5 wide;

6 (2) focuses on large hub commercial airports  
7 in—

8 (A) Seattle;

9 (B) Boston;

10 (C) Chicago;

11 (D) New York;

12 (E) the Northern California Metroplex;

13 (F) Phoenix;

14 (G) the Southern California Metroplex;

15 (H) the District of Columbia;

16 (I) Atlanta; and

17 (J) any other metropolitan large hub air-  
18 port identified by the Administrator;

19 (3) specifically looks at—

20 (A) characteristics of UFPs present in the  
21 air;

22 (B) spatial and temporal distributions of  
23 UFP concentrations;

24 (C) primary sources of UFPs;

1 (D) how much aircraft and airport oper-  
2 ations are contributing to the distribution of  
3 UFP concentrations when compared to other  
4 sources;

5 (E) potential health effects associated with  
6 elevated UFP exposures, including heart and  
7 lung diseases, asthma, nervous system dis-  
8 orders, and other health effects, that have been  
9 considered in previous studies; and

10 (F) potential UFP exposures, especially to  
11 susceptible and vulnerable groups;

12 (4) identifies measures, including the use of  
13 sustainable aviation fuels, intended to reduce emis-  
14 sions from aircraft and airport operations and assess  
15 potential impacts on emissions related to UFPs; and

16 (5) identifies important information gaps re-  
17 lated to understanding relationships between UFP  
18 exposures and health effects, contributions of avia-  
19 tion-related emissions to UFP exposures, and the ef-  
20 fectiveness of mitigation measures.

21 (b) COORDINATION.—The Administrator of the Fed-  
22 eral Aviation Administration shall coordinate with the Ad-  
23 ministrator of the Environmental Protection Agency, the  
24 Secretary of Health and Human Services, and any other

1 agency that the Administrator deems appropriate to pro-  
2 vide data and other assistance necessary for the study.

3 (c) REPORT.—Not later than 2 years after the date  
4 of execution of the funding agreement between the Federal  
5 Aviation Administration and the National Academy of  
6 Sciences, the Administrator of the Federal Aviation Ad-  
7 ministration shall submit to Congress a report on the  
8 study.

9 (d) DEFINITION.—In this Act, the terms “ultrafine  
10 particle” and “UFP” mean particles with diameters less  
11 than or equal to 100 nanometers.

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