

**AMENDMENT TO RULES COMM. PRINT 118–11**  
**OFFERED BY MR. BEYER OF VIRGINIA**

Add at the end of subtitle C of title XI the following:

1 **SEC. 1151. STUDY ON AERONAUTICAL STANDARDS.**

2 (a) **STUDY REQUIRED.**—The Administrator of the  
3 National Aeronautics and Space Administration, in con-  
4 sultation with the Secretary of Defense, the Administrator  
5 of the Federal Aviation Administration, and the Adminis-  
6 trator of the National Oceanic and Atmospheric Adminis-  
7 tration, shall conduct a study on the modernization of  
8 aeronautical standards.

9 (b) **DESIGNATION.**—The study conducted under sub-  
10 section (a) shall be known as the “Modernization of Aero-  
11 nautical Standards and Aircraft Performance Study”.

12 (c) **ELEMENTS.**—The study conducted under sub-  
13 section (a) shall include the following:

14 (1) An assessment of differences between cur-  
15 rent atmospheric conditions and baseline atmos-  
16 pheric conditions, including both mean and extreme  
17 values.

18 (2) An analysis of the impacts to operation,  
19 maintenance, and sustainment costs of covered com-

1       mercical aircraft due to the differences identified  
2       under paragraph (1).

3               (3) An estimation of the number of weight re-  
4       striction hours for covered commercial aircraft at  
5       covered commercial airports under baseline, current,  
6       and projected atmospheric conditions.

7               (4) An assessment of required infrastructure in-  
8       vestment at covered commercial airports such that  
9       the number of weight restriction hours under pro-  
10      jected atmospheric conditions is equivalent to the  
11      number of weight restriction hours with current in-  
12      frastructure and route structure under baseline and  
13      current atmospheric conditions.

14              (5) Recommendations for atmospheric and cli-  
15      matic design requirements for future commercial air-  
16      craft to account for projected atmospheric condi-  
17      tions.

18              (6) An analysis of impacts to operation, mainte-  
19      nance, and sustainment costs and aircraft perform-  
20      ance of military aircraft due to the differences iden-  
21      tified under paragraph (1).

22              (7) Atmospheric and climatic design require-  
23      ments for military aircraft, or other equipment,  
24      which should be updated to account for current and  
25      projected atmospheric conditions.

1           (8) Recommended updates or supplements to  
2           atmospheric standards due to current atmospheric  
3           conditions.

4           (9) Criteria under which future updates or sup-  
5           plements to atmospheric standards should be made.

6           (d) TRANSMITTAL.—The Administrator of the Na-  
7           tional Aeronautics and Space Administration shall trans-  
8           mit the results of the study to the Committee on Science,  
9           Space, and Technology and the Committee on Transpor-  
10          tation and Infrastructure of the House of Representatives,  
11          the Committee on Commerce, Science, and Transportation  
12          of the Senate, and the congressional defense committees  
13          not later than 18 months after the date of the enactment  
14          of this Act.

15          (e) DEFINITIONS.—In this section:

16           (1) AIRCRAFT PERFORMANCE.—The term “air-  
17          craft performance” includes the following:

18                   (A) Range.

19                   (B) Payload capacity.

20                   (C) Runway length requirement.

21                   (D) Climb rate.

22                   (E) Turn rate.

23                   (F) Operating altitude.

24                   (G) Acceleration.

1           (2) ATMOSPHERIC STANDARDS.—The term “at-  
2           mospheric standards” means the following:

3                   (A) The United States Standard Atmos-  
4                   phere of 1976.

5                   (B) MIL–HDBK–310, Climatic Informa-  
6                   tion to Determine Design and Test Require-  
7                   ments for Military Systems and Equipment.

8                   (C) Any other standard as determined by  
9                   the Administrator of the National Aeronautics  
10                  and Space Administration.

11           (3) BASELINE ATMOSPHERIC CONDITIONS.—  
12           The term “baseline atmospheric conditions” means  
13           the atmospheric conditions referred to in the most  
14           recent release of an atmospheric standard.

15           (4) COVERED COMMERCIAL AIRPORTS.—The  
16           term “covered commercial airports” means the fol-  
17           lowing:

18                   (A) The 30 commercial service airports (as  
19                   such term is defined in section 47102(7) of title  
20                   49, United States Code) with the most pas-  
21                   senger boardings in the most recent calendar  
22                   year ending before the date of the enactment of  
23                   this Act.

24                   (B) The five public airports (as such term  
25                   is defined in section 47102(21) of title 49,

1 United States Code) not described in clause (i)  
2 with the highest all-cargo landed weight in the  
3 most recent calendar year ending before the  
4 date of the enactment of this Act.

5 (5) COVERED COMMERCIAL AIRCRAFT.—The  
6 term “covered commercial aircraft” means the ten  
7 aircraft types still in production with the highest  
8 number of operations at covered commercial airports  
9 in the most recent calendar year ending before the  
10 date of the enactment of this Act.

11 (6) COMMERCIAL AIRCRAFT.—The term “com-  
12 mercial aircraft” means an air carrier operating  
13 under part 121 of title 14, Code of Federal Regula-  
14 tions.

15 (7) CONGRESSIONAL DEFENSE COMMITTEES.—  
16 The term “congressional defense committees” has  
17 the meaning given that term in section 101(a)(16)  
18 of title 10, United States Code.

19 (8) CURRENT ATMOSPHERIC CONDITIONS.—The  
20 term “current atmospheric conditions” means the  
21 atmospheric conditions observed in the five most re-  
22 cent calendar years ending before the date of the en-  
23 actment of this Act.

24 (9) PROJECTED ATMOSPHERIC CONDITIONS.—  
25 The term “projected atmospheric conditions” means

1 the mean atmospheric conditions projected by the  
2 International Panel on Climate Change under the  
3 Sixth Assessment Report in scenarios—

4 (A) SSP1–1.9;

5 (B) SSP1–2.6;

6 (C) SSP2–4.5;

7 (D) SSP3–7.0; and

8 (E) SSP5–8.5.

9 (10) MILITARY AIRCRAFT.—The term “military  
10 aircraft” means an aircraft that—

11 (A) is currently being developed, procured,  
12 or operated by the Department of Defense; and

13 (B) is a bomber, fighter, attack helicopter,  
14 transport helicopter, strategic transport, tac-  
15 tical transport, or surveillance aircraft.

16 (11) PASSENGER BOARDINGS.—The term “pas-  
17 senger boardings” has the meaning given such term  
18 in section 47102(15) of title 49, United States Code.

19 (12) WEIGHT RESTRICTION HOUR.—The term  
20 “weight restriction hour” means an hour when the  
21 maximum temperature for that hour matches or ex-  
22 ceeds the weight-restriction temperature threshold  
23 for a specific aircraft.

