

AMENDMENT TO H.R. 4489
OFFERED BY Lucas

At the end of the bill, add the following new section:

1 **SEC. 45. ELECTROMAGNETIC SPECTRUM RESEARCH AND**
2 **DEVELOPMENT.**

3 The Administrator shall develop a program to re-
4 search the use of spectrum in the civil aviation domain,
5 including aircraft and unmanned aircraft systems. This
6 research shall, at a minimum, address—

7 (1) how, operating within an Unmanned Air-
8 craft System Traffic Management system, un-
9 manned aircraft systems can safely use, for control
10 link, tracking, diagnostics, payload communication,
11 collaborative-collision avoidance (e.g. vehicle-to-vehi-
12 cle communications), and other purposes—

13 (A) aviation-protected spectrum;

14 (B) commercial communications networks,
15 such as mobile communications networks; and

16 (C) any other licensed or unlicensed spec-
17 trum;

18 (2) how the reallocation of spectrum assigned
19 for use within frequency bands adjacent to those al-

1 located for position, navigation, and timing may im-
2 pact the safety of civil aviation; and
3 (3) measures to protect and mitigate against
4 spectrum interference in frequency bands used by
5 the civil aviation community to ensure public safety.

