

119TH CONGRESS
2D SESSION

H. R. 10483

To direct the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense, Policy and Programs to seek to enter into an agreement with a University Affiliated Research Center affiliated with United States Strategic Command to conduct an independent scientific assessment with respect to bone marrow radiation shielding for nuclear survivability.

IN THE HOUSE OF REPRESENTATIVES

SEPTEMBER 17, 2026

Mr. BACON introduced the following bill; which was referred to the Committee on Armed Services

A BILL

To direct the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense, Policy and Programs to seek to enter into an agreement with a University Affiliated Research Center affiliated with United States Strategic Command to conduct an independent scientific assessment with respect to bone marrow radiation shielding for nuclear survivability.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Bone Marrow Radi-
3 ation Shielding Act”.

4 **SEC. 2. INDEPENDENT ASSESSMENT OF BONE MARROW RA-**
5 **DIATION SHIELDING FOR NUCLEAR SURVIV-**
6 **ABILITY.**

7 (a) **ASSESSMENT REQUIRED.**—Not later than 30
8 days after the date of the enactment of this Act, the As-
9 sistant Secretary of Defense for Nuclear, Chemical, and
10 Biological Defense, Policy and Programs shall seek to
11 enter into an agreement with a University Affiliated Re-
12 search Center affiliated with United States Strategic Com-
13 mand to conduct an independent scientific assessment on
14 whether preserving the viability of bone marrow using par-
15 tial body radiation shielding can improve the survivability
16 of an individual exposed to gamma radiation as compared
17 to an individual without such protection.

18 (b) **ELEMENTS.**—The assessment required under
19 subsection (a) shall examine peer-reviewed scientific lit-
20 erature, laboratory studies and relevant experimental data
21 to evaluate the comparative effectiveness of preserving
22 bone marrow using partial body radiation shielding with
23 respect to—

24 (1) the likelihood of developing Acute Radiation
25 Syndrome;

1 (2) the severity of Acute Radiation Syndrome
2 when it occurs; and

3 (3) overall mortality rates following gamma ra-
4 diation exposure.

5 (c) REPORT.—Not later than 150 days after the date
6 of the enactment of this Act, the Assistant Secretary shall
7 submit to the Committees on Armed Services of the House
8 of Representatives and the Senate a report on the assess-
9 ment required under subsection (a) that includes the find-
10 ings of such assessment.

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