

**FURTHER MODIFICATION TO
AMENDMENT No. 2917**

Calendar No. 65

Purpose: To provide for the energy security of the Nation.

IN THE SENATE OF THE UNITED STATES
107th Cong., 2d Sess.

**MODIFICATION TO
AMENDMENT NO. 2917
TO S. 517**

Proposed by Mr. DASCHLE (for himself and Mr. BINGAMAN).

MARCH 5, 2002

Viz:

1 Strike all after the enacting clause and insert the following:

2 **SECTION 1. SHORT TITLE.**

3 This Act may be cited as the "Energy Policy Act of 2002".

4 **SEC. 2. TABLE OF CONTENTS.**

Sec. 1. Short title.

Sec. 2. Table of contents.

1 (1) \$285,000,000 for fiscal year 2003;

2 (2) \$300,000,000 for fiscal year 2004;

3 (3) \$310,000,000 for fiscal year 2005; and

4 (4) \$320,000,000 for fiscal year 2006.

5 **SEC. 1254. FUSION ENERGY SCIENCES PROGRAM AND PLANNING.**

6 (a) OVERALL PLAN FOR FUSION ENERGY SCIENCES PROGRAM.—

7 (1) IN GENERAL.— Not later than 6 months after the date of enactment of this subtitle, the
8 Secretary, after consultation with the Fusion Energy Sciences Advisory Committee, shall develop and
9 transmit to the Congress a plan to ensure a strong scientific base for the Fusion Energy Sciences
10 Program within the Office of Science and to enable the experiments described in subsections (b) and (c).

11 (2) OBJECTIVES OF PLAN.— The plan under this subsection shall include as its objectives—

12 (1) to ensure that existing fusion research facilities and equipment are more fully utilized with
13 appropriate measurements and control tools;

14 (2) to ensure a strengthened fusion science theory and computational base;

15 (3) to encourage and ensure that the selection of and funding for new magnetic and inertial fusion
16 research facilities is based on scientific innovation and cost effectiveness;

17 (4) to improve the communication of scientific results and methods between the fusion science
18 community and the wider scientific community;

1 (5) to ensure that adequate support is provided to optimize the design of the magnetic fusion
2 burning plasma experiments referred to in subsections (b) and (c); and

3 (6) to ensure that inertial confinement fusion facilities are utilized to the extent practicable for the
4 purpose of inertial fusion energy research and development.

5 (b) PLAN FOR UNITED STATES FUSION EXPERIMENT.—

6 (1) IN GENERAL.—The Secretary, after consultation with the Fusion Energy Sciences Advisory
7 Committee, shall develop a plan for construction in the United States of a magnetic fusion burning
8 plasma experiment for the purpose of accelerating scientific understanding of fusion plasmas. The
9 Secretary shall request a review of the plan by the National Academy of Sciences and shall transmit the
10 plan and the review to the Congress by July 1, 2004.

11 (2) REQUIREMENTS OF PLAN.— The plan described in paragraph (1) shall—

12 (A) address key burning plasma physics issues; and

13 (B) include specific information on the scientific capabilities of the proposed experiment,
14 the relevance of these capabilities to the goal of practical fusion energy, and the overall design of
15 the experiment including its estimated cost and potential construction sites.

16 (c) PLAN FOR PARTICIPATION IN AN INTERNATIONAL EXPERIMENT.— In
17 addition to the plan described in subsection (b), the Secretary, after consultation with the Fusion Energy
18 Sciences Advisory Committee, may also develop a plan for United States participation in an international
19 burning plasma experiment for the same purpose, whose construction is found by the Secretary to be
20 highly likely and where United States participation is cost-effective relative to the cost and scientific

1 benefits of a domestic experiment described in subsection (b). If the Secretary elects to develop a plan
2 under this subsection, he shall include the information described in subsection (b)(2), and an estimate of
3 the cost of United States participation in such an international experiment. The Secretary shall request a
4 review by the National Academy of Sciences of a plan developed under this subsection, and shall
5 transmit the plan and the review to the Congress no later than July 1, 2004.

6 (d) AUTHORIZATION FOR RESEARCH AND DEVELOPMENT.— The Secretary, through
7 the Office of Science, may conduct any research and development necessary to fully develop the plans
8 described in this section.

9 (e) AUTHORIZATION OF APPROPRIATIONS.— From amounts authorized under section
10 1251(b) for fiscal year 2003, \$335,000,000 are authorized for fiscal year 2003 for activities under this
11 section and for activities of the Fusion Energy Sciences Program.

12 **Subtitle F – Energy, Safety, and Environmental Protection**

13 **SEC. 1261. CRITICAL ENERGY INFRASTRUCTURE PROTECTION RESEARCH AND** 14 **DEVELOPMENT.**

15 (a) IN GENERAL.— The Secretary shall carry out a research, development, demonstration and
16 technology deployment program, in partnership with industry, on critical energy infrastructure protection,
17 consistent with the roles and missions outlined for the Secretary in Presidential Decision Directive 63,
18 entitled “Critical Infrastructure Protection”. The program shall have the following goals:

19 (1) Increase the understanding of physical and information system disruptions to the energy
20 infrastructure that could result in cascading or widespread regional outages.