

FY17 Science and Fusion House Appropriations Bill Language (Proposed)

(Assembled from House Rules Committee website documents and is expected to be what the House and Senate will vote on. MH-5/1/2017)

1. SCIENCE

1. For Department of Energy expenses including the purchase, construction, and acquisition of plant and capital equipment, and other expenses necessary for science activities in carrying out the purposes of the Department of Energy Organization Act (42 U.S.C. 7101 et seq.), including the acquisition or condemnation of any real property or facility or for plant or facility acquisition, construction, or expansion, and purchase of not more than 17 passenger motor vehicles for replacement only, including one ambulance and one bus, \$5,392,000,000, to remain available until expended: *Provided*, That of such amount, \$182,000,000 shall be available until September 30, 2018, for program direction: *Provided further*, That of such amount, \$50,000,000 shall be available for the ongoing in-kind contributions provided by facilities located in the United States to the ITER project and related support activities carried out by such facilities for the ITER project and, subject to the notification requirement in section 301(e) of this Act, up to an additional \$50,000,000 of such amount may be made available for in-kind contributions and related support activities of ITER.

STATEMENT OF MANAGERS LANGUAGE

The agreement provides \$5,392,000,000 for the Office of Science. The agreement includes legislative language and reprogramming authority for the Secretary regarding U.S. participation in the ITER project. The agreement provides up to \$2,000,000, to be funded from across all Office of Science programs, to support the Distinguished Scientist Program, as authorized in section 5011 of Public Law 110-69.

Advanced Scientific Computing Research.-Within available funds, the agreement provides \$164,000,000 for the exascale initiative, \$80,000,000 for the Argonne Leadership Computing Facility, \$110,000,000 for the Oak Ridge Leadership Computing Facility, \$92,145,000 for the National Energy Research Scientific Computing Center at Lawrence Berkeley National Laboratory, \$10,000,000 for the Computational Sciences Graduate Fellowship program, and \$45,000,000 for ESnet.

Within available funds, the agreement provides up to \$20,000,000 for meeting the challenges surrounding memory and storage architecture.

Basic Energy Sciences (BES) . - T h e following is the only direction provided for BES. The agreement provides \$15,000,000 for the Experimental Program to Stimulate Competitive Research; \$26,000,000 for exascale systems; \$24,088,000 for the Batteries and Energy Storage Hub; \$15,000,000 for the Fuels from Sunlight Hub; \$42,500,000 for the Advanced Photon Source Upgrade; \$494,059,000 for optimal operations of the five BES light sources, of which \$5,000,000 is for the Advanced Light Source Upgrade; and \$266,000,000 for the High-Flux Neutron Sources, of which \$200,000,000 is for the Spallation Neutron Source, \$65,000,000 is for the High-Flux Isotope Reactor, and \$1,000,000 is for the Lujan Neutron Scattering Center. The agreement provides the requested level of funding for the Nanoscale Science Research Centers.

Biological and Environmental Research (BER).-*Within* available funds, the agreement provides \$75,000,000 for the three BioEnergy Research Centers and \$10,000,000 for exascale computing. The Department is urged to give priority to optimizing the operation of BER user facilities.

Fusion Energy Sciences.-The agreement provides \$212,027,000 for burning plasma science foundations, \$41,569,000 for burning plasma science long pulse, and \$76,404,000 for discovery plasma science. Within available funds, the agreement provides not less than \$74,090,000 for the National Spherical Torus Experiment and not less than \$87,100,000 for DIII-D. The Department is directed to hold additional workshops and submit not later than 180 days after enactment of this Act to the Committees on Appropriations of both Houses of Congress a report summarizing the fusion energy science community's continued efforts hosting workshops to advance and plan for the long term vision of the fusion energy sciences field.

High Energy Physics.-The following is the only direction provided for High Energy Physics. Within available funds, the agreement provides \$15,220,000 for PIP-11, \$45,000,000 for the Large Synoptic Survey Telescope Camera, \$12,000,000 for DESI, and \$12,500,000 for LUX ZEPLIN.

Nuclear Physics.-*Within* available funds, the Department is encouraged to fund optimal operations for the Relativistic Heavy Ion Collider at Brookhaven National Laboratory.

Science Laboratories Infrastructure.-The Office of Science is directed to work with the Office of Nuclear Energy in future budget requests to demonstrate a commitment to operations and maintenance of nuclear facilities at Oak Ridge National Laboratory that support multiple critical missions.

ADVANCED RESEARCH PROJECTS AGENCY-ENERGY

The agreement provides \$306,000,000 for the Advanced Research Projects Agency-Energy.