



STATEMENT BY

IEEE-USA

SUPPORTING PASSAGE OF

**H.R. 4376, THE DEPARTMENT OF ENERGY RESEARCH INFRASTRUCTURE ACT,
H.R. 4377, THE ACCELERATING AMERICAN LEADERSHIP IN SCIENCE ACT; and
H.R. 4378, THE NUCLEAR ENERGY RESEARCH INFRASTRUCTURE ACT**

13 February 2017

On behalf of 180,000 technology professionals across the United States represented by IEEE-USA, we applaud the work of the House Science, Space and Technology Committee to address national energy infrastructure needs and urge the House of Representatives to pass H.R. 4376, the Department of Energy Research Infrastructure Act; H.R. 4377, the Accelerating American Leadership in Science Act; and HR 4378, the Nuclear Energy Research Infrastructure Act.

H.R. 4376 supports upgrades to the Linac Coherent Light Source II facility at the Stanford Linear Accelerator Center in California as was requested by the DOE's Basic Energy Sciences Advisory Committee in a June 2016 report outlining facility upgrade needs. This bill also provides funding to advance high-energy physics research and specifically designates funding for a Facility for Rare Isotope Beams at Michigan State University.

H.R. 4377 provides funding for upgrades to Argonne National Laboratory's Advanced Photon Source located in Illinois. The Basic Energy Sciences Advisory Committee recommended these facility improvements in the June 2016 Report on facility upgrades. This bill will provide support for the Long-Baseline Neutrino Facility for Deep Underground Neutrino Experiment (DUNE), a beam that runs underground between the Sanford Underground Physics Laboratory in South Dakota and Fermilab in Illinois. DUNE is a collaborative effort of over 160 institutions in 30 countries and this bill will allow for the continued exploration of particle physics. Additionally, the bill will provide power upgrades to the Spallation Neutron Source at Oak Ridge National Lab in Tennessee to further advance our understanding of neutron beams used in university and industrial research.

H.R. 4378 commits funding from the DOE Office of Nuclear Energy for the development of a versatile reactor-based fast neutron source that will operate as a national facility. The neutron source will advance neutron irradiation research that will support projects conducted by universities and the private sector. This nuclear fuel research could have implications for improving fuel efficiency and expanding our understanding of nuclear fission.

IEEE-USA looks forward to continuing to work with Representatives Steve Knight, Randy Hultgren, Randy Weber and the House Science, Space and Technology Committee in support of this legislation and on other measures needed to address research infrastructure needs at the Department of Energy and other federal research agencies, which are critical to retaining global technological competitiveness.

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