

NUCLEAR ENERGY PROGRAMS

The Committee recommendation for nuclear energy programs under the Energy Supply and Conservation appropriation is \$377,701,000, a decrease of \$12,205,000 below the budget request. This net decrease reflects the Committee's recommendation to shift the responsibility for U-233 disposition at Oak Ridge from Nuclear Energy Programs to NNSA, a reduction of \$18,705,000, and a reduction of \$10,000,000 to Nuclear Power 2010. The Committee has provided an additional \$16,500,000 for increased programmatic activities for the Office of Nuclear Energy, as described below.

Of the total funding of \$515,074,000 provided for Nuclear Energy programs and facilities, \$137,373,000 represents costs allocated to the 050 budget function (i.e., defense activities.) These defense-related costs, which include \$3,003,000 representing the security charges for reimbursable work, and are funded under the Other Defense Activities and Naval Reactors accounts. Within the total amount provided, \$3,000,000 is for the transfer and implementation of nuclear safety technologies in Lithuania.

UNIVERSITY REACTOR FUEL ASSISTANCE AND SUPPORT

The Committee recommends \$24,000,000, the same as the budget request. The Committee continues to support DOE's programs to sustain existing university reactors and provide grants and fellowships that support nuclear science and engineering education.

NUCLEAR ENERGY RESEARCH AND DEVELOPMENT

Nuclear Power 2010.—The Committee provides \$46,000,000 for Nuclear Power 2010, a decrease of \$10,000,000 from the budget request.

Generation IV Nuclear Energy Systems.—The Committee supports the Department's collaborative efforts on the research and development of a Generation IV reactor design that will be safer, more cost effective, and more proliferation resistant than current designs. The Committee recommends a total of \$45,000,000 for Generation IV Nuclear Energy Systems, the same as the budget request and an increase of \$5,320,000 over the fiscal year 2005 enacted level. Within available funds, \$1,000,000 is made available for work on high temperature fuel fabrication techniques in support of the Generation IV Nuclear Energy Systems under the direction of Idaho National Laboratory (INL).

Nuclear hydrogen initiative.—The Committee provides \$20,000,000 for the nuclear hydrogen initiative, the same as the budget request. The Committee expects the Department to meet the requirements of the Hydrogen Future Act of 1996 (P.L. 104-271) for competition and industry cost sharing, and expects the Office of Nuclear Energy, Science and Technology to coordinate the nuclear hydrogen initiative fully with the other hydrogen research being conducted by the Office of Science and the Office of Energy Efficiency and Renewable Energy.

Spent Fuel Recycling Initiative.—As mentioned previously in this report, the Committee directs the Department to conduct a new Spent Fuel Recycling Initiative, which has linked elements in both the Nuclear Energy and Nuclear Waste Disposal accounts. One