

\$5,000,000 to conduct electricity transmission, distribution and energy assurance research and development activities at the National Energy Technology Laboratory and \$10,000,000, equally divided between Idaho and Sandia National Laboratories, to support activities at the SCADA test facilities. The conference agreement includes \$3,000,000 for deployment testing and analysis of advanced energy storage systems for telecommunication applications in Kansas. Detailed subprogram allocations are shown in the table at the end of Title III.

Program Direction.—The conference agreement includes \$13,447,000 for program direction.

NUCLEAR ENERGY PROGRAMS

The conference agreement provides a total of \$557,574,000 for nuclear energy programs. The Office of Nuclear Energy, Science and Technology is the lead office with landlord responsibilities for the Idaho site. Because this site provides considerable support to defense activities and naval nuclear reactors, \$123,873,000 of costs is allocated to Other Defense Activities and \$13,500,000 is allocated to Naval Reactors. Both programs are in the 050 budget function.

University Reactor Fuel Assistance and Support.—The conference agreement includes \$27,000,000. The conferees support the inclusion of the Institute of Nuclear Science and Engineering at Idaho National Laboratory in this program.

Nuclear Energy Research and Development.—The conference agreement provides \$226,000,000 for nuclear energy research and development. The conference agreement provides \$66,000,000 for Nuclear Power 2010.

For Generation IV Nuclear Energy Systems, the conferees provide \$55,000,000, of which \$40,000,000 is provided for the Next Generation Nuclear Power Plant program. Within available funds, \$4,000,000 is provided for the development of multiple high temperature fuel fabrication techniques in support of the Generation IV Nuclear Energy Systems.

The conferees provide \$25,000,000 for the Nuclear Hydrogen Initiative. The conferees provide an additional \$5,000,000 over the request to accelerate essential materials research and development and component design, test and evaluation for implementing the high temperature sulfuriodine water splitting process for hydrogen production necessary to the advanced reactor hydrogen co-generation project at Idaho National Laboratory.

The conferees provide \$80,000,000 for the Advanced Fuel Cycle Initiative (AFCI), \$10,000,000 over the request. The additional funds are to be used to accelerate the design activities associated with a proposed Engineering Scale Demonstration (ESD). This funding will allow completion of the conceptual design in fiscal year 2006 and enable pre-engineering design to commence in fiscal year 2007. The conferees direct the Department to accelerate the development of a separations technology that can address the current inventories of commercial spent nuclear fuel and select the preferred technology no later than the end of fiscal year 2007. The conferees direct the Department to submit the spent nuclear fuel recycling