

DIVISION C – ENERGY AND WATER DEVELOPMENT AND RELATED  
AGENCIES APPROPRIATIONS ACT, 2008

Following is an explanation of the effects of this division of the House amendment to the Senate amendment to H.R. 2764 (hereafter referred to as “the amended bill”) relative to the versions of the Energy and Water Development Appropriations Act, 2008 (H.R. 2641 and S. 1751) passed by the House of Representatives and reported by the Senate Appropriations Committee.

The language and allocations set forth in House Report 110-185 and Senate Report 110-127 should be complied with unless specifically addressed to the contrary in the amended bill and explanatory statement. Report language included by the House which is not contradicted by the report of the Senate or the explanatory statement, and Senate report language which is not contradicted by the report of the House or the explanatory statement, is approved. The explanatory statement, while repeating some report language for emphasis, does not intend to negate the language referred to above unless expressly provided herein. In cases where both the House report and Senate report address a particular issue not specifically addressed in the amended bill or explanatory statement, the House report and Senate report are not inconsistent and are to be interpreted accordingly. In cases in which the House or Senate have directed the submission of a report, such report is to be submitted to both House and Senate Committees on Appropriations.

## SCIENCE

The amended bill provides \$4,055,483,000 for Science instead of \$4,514,082,000 as proposed by the House and \$4,496,759,000 as proposed by the Senate. Funds previously provided for the Coralville, Iowa, project in the Consolidated Appropriations Act, 2004, are rescinded.

*High Energy Physics.*—Funding under this heading in the amended bill includes \$694,638,000 for High Energy Physics. Within funding for Proton Accelerator-Based Physics, no funds are provided for the NOvA activity in Tevatron Complex Improvements. Within Advanced Technology R&D, in the current constrained environment and without a Critical Decision 0 by the Department, only \$15,000,000 is provided for International Linear Collider R&D and \$5,455,000 for Superconducting RF R&D.

The Committees on Appropriations appreciate the Beyond Einstein Program architecture report by the National Research Council and support its recommendations. Accordingly, the Department of Energy is directed to proceed jointly with NASA to conduct and complete an open, competitive selection of the science investigation and payload for the Joint Dark Energy Mission (JDEM) during 2008. This selection should use the NASA Announcement of Opportunity process and have as its primary science selection criterion the achievement of improved understanding of dark energy and include improved understanding in astrophysics generally as a secondary criterion. The selection should be made jointly by one official each from NASA and DOE. If DOE and NASA cannot agree on a joint approach for mission implementation, DOE should provide no future year support for this activity or for other space science satellite missions. The Department is directed to continue support for the Super Nova Acceleration Probe during fiscal year 2008.

The control level is at the High Energy Physics level.

*Nuclear Physics.*—Funding under this heading in the amended bill includes \$436,700,000 for Nuclear Physics. Within Nuclear Physics, construction is funded at \$17,700,000, the same as the request.

*Biological and Environmental Research.*—Funding under this heading in the amended bill includes \$549,397,000 for Biological and Environmental Research. This area of the Office of Science encompasses two distinct research efforts: Biological Research, using biology to address energy production and environmental remediation, and Climate Change Research. The Department is directed to request funds for Biological Research and Climate Change Research as separate subaccounts in fiscal year 2009 and future fiscal years.

*Biological Research.*—Funding under this heading in the amended bill includes \$411,273,000 for Biological Research, including \$31,500,000 for Medical Applications and Measurement Science. The increase of \$17,500,000 is for nuclear medicine research. All of the added funds must be awarded competitively in one or more solicitations that include all sources – universities, the private sector, and government laboratories – on an equal basis. The Committees on Appropriations support the language contained in the Senate report on Advanced Materials Testing and Low Dose Research. The Committees on Appropriations also note that diagnostics are currently in development between the University of New Mexico (UNM) and Los Alamos National Laboratory utilizing the unique capabilities of Los Alamos National Laboratory at the IPF at LANSCE and the radiopharmaceutical expertise of UNM at the Center for Isotopes in Medicine.

*Climate Change Research.*—Funding under this heading in the amended bill includes \$138,124,000 for Climate Change Research, the same as the request.

*Basic Energy Sciences.*—Funding under this heading in the amended bill includes \$1,281,564,000 for Basic Energy Sciences. Within Basic Energy Sciences, \$15,000,000 is provided for the Experimental Program to Stimulate Competitive Research (EPSCoR).

*Reprogramming.*— For purposes of reprogramming during fiscal year 2008, the Department may allocate funding among all operating accounts within Basic Energy Sciences, consistent with the reprogramming guidelines outlined in House Report 110-185.

*Nanoscience Research Centers.*—The Committees on Appropriations support ongoing research at the Nanoscale Science Research Centers and Manuel Lujan Jr. Neutron Scattering Center.

*Construction.*—Given current budget constraints, funding under this heading in the amended bill includes less funding than requested for two projects where the start of major construction activity can be delayed.

*Advanced Scientific Computing Research.*—Funding under this heading in the amended bill includes \$354,398,000 for Advanced Scientific Computing Research. Within Advanced Scientific Computing Research, \$19,500,000 is included for the Office of Science to continue the Department's participation in the Defense Advanced Research Projects Agency High Productivity Computing Systems partnership and an increase of \$7,700,000 is included for the Oak Ridge Leadership Computing Facility to maintain the planned budget and cost schedule.

The Office of Science and the National Nuclear Security Administration (NNSA) are directed to establish the Institute for Advanced Architectures and Algorithms with Centers of Excellence at Sandia National Laboratories and Oak Ridge National Laboratory. These Centers will execute a national program involving industry, universities and national laboratories that is focused on technologies to sustain the U.S. leadership in high performance computing. The NNSA ASC and Office of Science ASCR programs will jointly fund the program and provide direction needed to support the goal of developing exascale computing for the Nation.

*Fusion Energy Sciences.*—Funding under this heading in the amended bill includes \$289,180,000 for Fusion Energy Sciences. Within Fusion Energy Sciences, \$162,910,000

is provided for Science, \$93,504,000 for U.S. Facility Operations, an increase of \$6,000,000 to be used to increase facility operations at the three U.S. user facilities (i.e., the DIII-D, Alcator C-Mod, and National Spherical Torus Experiment) \$22,042,000 for Enabling R&D, an increase of \$1,225,000 for materials research, \$0 for the U.S. contribution to ITER, and \$10,724,000 for Enabling R&D for ITER. Funding under this heading in the amended bill includes \$12,281,000 for High Energy Density Physics. Funding may not be reprogrammed from other activities within Fusion Energy Sciences to restore the U.S. contribution to ITER.

*Science Laboratories Infrastructure.* — Funding under this heading in the amended bill includes \$65,456,000 for infrastructure activities. Within Science Laboratories Infrastructure, \$1,520,000 is provided to continue payments in lieu of taxes for Argonne and Brookhaven National Laboratories, \$5,079,000 for Oak Ridge Laboratory landlord expenses, and \$8,828,000 for excess facilities disposition, as requested. Also included is \$50,029,000 for MEL-001 Multiprogram energy laboratory infrastructure projects at various locations.

The Committees on Appropriations continue to be supportive of the Physical Sciences Facility at the Pacific Northwest National Laboratory, and \$25,000,000 for this facility is included in funding provided for MEL-001. This amount is \$10,000,000 below the request for this facility in the Office of Science. The Department is directed to increase the future year funding contribution of the Office of Science for this facility by \$10,000,000 to restore the baseline funding contribution from the Office of Science. To keep this project on schedule, \$25,000,000 is included in Defense Nuclear Nonproliferation.

The Committees on Appropriations understand that the modernization of Laboratory 4500 at Oak Ridge National Laboratory can be accomplished more efficiently than originally proposed in the fiscal year 2007 budget request. The Department is directed to use the existing \$2,000,000 of PED funding, plus the requested construction funding under the MEL-001 infrastructure project, for the design and construction of a new multi-purpose laboratory to replace 4500N.

*Safeguards and Security.* — Funding under this heading in the amended bill includes \$76,592,000 for Safeguards and Security, the same as the request.

*Science Workforce Development.* — Funding under this heading in the amended bill includes \$8,118,000 for Science Workforce Development.

*Science Program Direction.* — Funding under this heading in the amended bill includes \$179,412,000 for Science Program Direction including \$6,644,000 to support the New Brunswick Laboratory.

*Funding Adjustments.* — Funding under this heading in the amended bill includes an offset of \$5,605,000 for the safeguards and security charge for reimbursable work.

*Congressionally Directed Projects.* — Funding under this heading in the amended bill includes \$125,633,000 for Congressionally Directed Projects.

CONGRESSIONALLY DIRECTED SCIENCE PROJECTS

SHOOT  
DO NOT  
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PROJECT	
AAMURI INTEGRATED ENVIRONMENTAL RESEARCH AND SERVICES (AL)	\$500,000
ADVANCED CELLULAR AND BIOMOLECULAR IMAGING (PA)	500,000
ADVANCED LABORATORY TECHNOLOGY INITIATIVE (NJ)	500,000
ALBRIGHT COLLEGE SCIENCE FACILITIES (PA)	350,000
ALLIANCE FOR NANOHEALTH (TX)	750,000
BELMONT BAY SCIENCE CENTER (VA)	250,000
BENNETT COLLEGE SCIENCE AND TECHNOLOGY FACILITY (NC)	1,000,000
BERKSHIRE ENVIRONMENTAL RESOURCES CENTER (MA)	250,000
BOSTON COLLEGE INSTITUTE FOR INTEGRATED SCIENCES (MA)	1,000,000
BRONX COMMUNITY COLLEGE SUSTAINABLE ENERGY CENTER (NY)	300,000
BULK PRODUCTION OF METALLIC GLASS (OH)	500,000
CARDIAC CATHETERIZATION RESEARCH AND EQUIPMENT (TX)	750,000
CENTER FOR NANOMEDICINE AT THE UNIVERSITY OF MARYLAND IN BALTIMORE TO SUPPORT RESEARCH INTO NEW NANOCONSTRUCTS (MD)	250,000
CHEYNEY UNIVERSITY STEM EDUCATION INFRASTRUCTURE (PA)	1,250,000
CHICAGO PUBLIC SCHOOLS SCIENCE LABORATORY ENHANCEMENT (IL)	1,000,000
CHICAGO STATE UNIVERSITY RESEARCH (IL)	1,000,000
CHILDREN'S ONCOLOGY GROUP CHILDHOOD CANCER RESEARCH (TX)	200,000
COE COLLEGE SCIENTIFIC INSTRUMENTATION (IA)	900,000
COLUMBUS CHILDREN'S HOSPITAL IMAGING EQUIPMENT (OH)	1,000,000
DECISION SUPPORT TOOLS FOR COMPLEX ANALYSIS (OH)	2,000,000
DEPAUL UNIVERSITY INTERDISCIPLINARY SCIENCE AND TECHNOLOGY (IL)	250,000
DOMINICAN UNIVERSITY IN RIVER FOREST, ILLINOIS FOR RESEARCH RELATED TO THE ROLE OF TRANSGLUTAMINASES IN ALZHEIMER'S AND HUNTINGTON'S DISEASES (IL)	600,000
EASTERN KENTUCKY UNIVERSITY CHEMICAL RESEARCH INSTRUMENTATION (KY)	300,000
ECKERD COLLEGE SCIENCE CENTER (FL)	2,000,000
EMMANUEL COLLEGE CENTER FOR SCIENCE PARTNERSHIP (MA)	500,000
ENERGY EFFICIENCY THROUGH THE NY INDUSTRIAL RETENTION NETWORK (NY)	500,000
ENVIRONMENTAL SYSTEM CENTER AT SYRACUSE UNIVERSITY (NY)	750,000
FORDHAM UNIVERSITY REGIONAL SCIENCE CENTER (NY)	700,000
GEOHERMAL DEMONSTRATION PROJECT (OH)	500,000
GEOHERMAL SYSTEM AT SHERMAN HOSPITAL IN ELGIN, IL (IL)	1,000,000
GERMANTOWN BIOTECHNOLOGY PROJECT (MD)	1,500,000
GOOD SAMARITAN HOSPITAL SPECIALTY CANCER CENTER (OH)	400,000
GREEN BUILDING TECHNOLOGIES FOR LAKEVIEW MUSEUM (IL)	200,000
GREEN ENERGY XCHANGE (NC)	840,000
GULF OF MAINE RESEARCH INSTITUTE LAB UPGRADES (ME)	750,000
HARNEY SCIENCE CENTER EQUIPMENT (CA)	500,000
HOFSTRA UNIVERSITY CENTER FOR CONDENSED MATTER RESEARCH (NY)	550,000
IMAGING AND ONCOLOGY EQUIPMENT AT UVSC (UT)	750,000
INDIANA WESLEYAN UNIVERSITY SCHOOL OF NURSING (IN)	250,000
INLAND NORTHWEST RESEARCH ALLIANCE (INRA) WATER RESEARCH (WA)	1,500,000
INSTITUTE FOR COLLABORATIVE SCIENCES RESEARCH (FL)	400,000
JACKSON STATE UNIVERSITY IN JACKSON, MISSISSIPPI, FOR BIOENGINEERING RESEARCH TRAINING (MS)	2,000,000
JACKSONVILLE UNIVERSITY MARINE SCIENCE RESEARCH INSTITUTE (FL)	500,000
KUMC TELE-ONCOLOGY NETWORK (KS)	300,000
LAKE GRANBURY AND LAKE WHITNEY ASSESSMENT (TX)	500,000
LAPEER REGIONAL MEDICAL CENTER CT SIMULATOR (MI)	400,000
LEVINE CHILDREN'S HOSPITAL CT SCANNER (NC)	1,000,000
LIGHTWEIGHT POWER SUPPLY DEVELOPMENT (PA)	500,000

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## CONGRESSIONALLY DIRECTED SCIENCE PROJECTS

PROJECT	
LOGAN CANCER CENTER EQUIPMENT AND TECHNOLOGY (UT)	1,000,000
LOMA LINDA UNIVERSITY MEDICAL COLLEGE RADIATION PROTECTION PROGRAM (CA)	2,000,000
LOUISIANA TECH UNIVERSITY IN RUSTON, LOUISIANA, FOR RESEARCH IN NANOTECHNOLOGY (LA)	1,500,000
LOUISVILLE SCIENCE CENTER (KY)	150,000
LUTHER COLLEGE SCIENCE BUILDING RENOVATION PROJECT (IA)	750,000
MATHEMATICS, SCIENCE AND TECHNOLOGY RESEARCH AND TRAINING LAB PROJECT (PA)	2,500,000
MEMORIAL HEALTH SYSTEM, SPRINGFIELD, ILLINOIS (IL)	500,000
MEMORIAL HERMANN BAPTIST HOSPITAL ORANGE--1.5T MRI (TX)	600,000
NANOSYSTEMS INITIATIVE AT THE UNIVERSITY OF ROCHESTER (NY)	1,000,000
NANOTECHNOLOGY RESEARCH INTERNSHIPS IN ILLINOIS (IL)	500,000
NEUROSCIENCE LABORATORY, DOMINICAN UNIVERSITY (IL)	300,000
NEUROSCIENCES INSTITUTE IN MORGANTOWN, WEST VIRGINIA, TO SUPPORT MOLECULAR GENETICS RESEARCH (WV)	2,000,000
NEVADA CANCER INSTITUTE IN LAS VEGAS TO SUPPORT RESEARCH OF CELLULAR ANTIGENS AND NUCLEI ACIDS (NV)	500,000
NEW MEXICO CENTER FOR ISOTOPES IN MEDICINE (NM)	750,000
NEW MEXICO TECH UNIVERSITY IN SOCORRO, NEW MEXICO, FOR APPLIED ENERGY SCIENCE DESIGN (NM)	1,500,000
NEW SCHOOL UNIVERSITY GREEN BUILDING (NY)	2,000,000
NORTHERN HEMISPHERE PIERRE AUGER OBSERVATORY IN COLORADO FOR THE NORTHERN HEMISPHERE LOCATION OF A PARTICLE DETECTION OBSERVATORY (CO)	1,000,000
NORTHWEST MISSOURI STATE UNIVERSITY IN MARYVILLE, MISSOURI, FOR THE NANOSCIENCE EDUCATION PROJECT (MO)	1,200,000
NOTRE DAME INNOVATION PARK (IN)	784,000
NUTLEY ENERGY EFFICIENT ELEMENTARY SCHOOLS (NJ)	500,000
PERRY MEMORIAL HOSPITAL PACS SYSTEM (IL)	350,000
PHASE II DESIGN AND CONST. OF SAGE HALL SCIENCE (FL)	500,000
PIKEVILLE MEDICAL CENTER, KENTUCKY (KY)	500,000
PIONEER VALLEY LIFE SCIENCES INITIATIVE (MA)	1,000,000
PROTON BEAM THERAPY (WA)	750,000
PURDUE CALUMET INLAND WATER INSTITUTE (IN)	500,000
PURDUE TECHNOLOGY CENTER (IN)	2,000,000
ROCKLAND COMMUNITY COLLEGE SCIENCE LABORATORY (NY)	500,000
ROOSEVELT UNIVERSITY BIOLOGY LABORATORY EQUIPMENT (IL)	700,000
SANDIA INSTITUTE FOR ADVANCED COMPUTING ALGORITHMS, NEW MEXICO, FOR HIGH PERFORMANCE COMPUTING AND ADVANCED ALGORITHM DEVELOPMENT (NM)	7,437,500
SETON HALL UNIVERSITY SCIENCE AND TECHNOLOGY CENTER (NJ)	1,000,000
SOUTH CAROLINA LAMBDA RAIL COMPUTER NETWORK PORTAL (SC)	1,200,000
SOUTH COUNTY NATURE PRESERVE, IRVINGTON, NY (NY)	250,000
SOUTH DAKOTA CATALYST GROUP FOR ALTERNATIVE ENERGY TO SUPPORT RESEARCH THAT WILL SYNTHESIZE, CHARACTERIZE AND SCALE UP PRODUCTION OF CATALYSTS IMPORTANT FOR ENERGY ALTERNATIVES TO FOSSIL FUELS (SD)	1,100,000
ST. CLARE'S HOSPITAL (NJ)	500,000
ST. JOSEPH'S UNIVERSITY SCIENCE CENTER EQUIPMENT (PA)	800,000
ST. ROSE DOMINICAN HOSPITALS SIERRA TRAUMA CENTER (NV)	500,000
ST. THOMAS UNIVERSITY - CORTE (FL)	250,000
SUSTAINABLE BIOFUELS DEVELOPMENT CENTER (CO)	350,000
TECHNOLOGY FOR PRINT DISABLED STUDENTS (FL)	1,200,000
TEXAS CENTER FOR ADVANCED SCIENCE COMPUTING AND MODELING (TX)	750,000
THE METHANOL ECONOMY (CA)	2,000,000
TULANE MATERIALS AND ENERGY RESEARCH (LA)	1,200,000
U. OF CALIFORNIA, LOS ANGELES FOR THE INSTITUTE FOR MOLECULAR MEDICINE RADIATION RESEARCH (CA)	6,000,000
U. OF CALIFORNIA, SAN DIEGO TO SUPPORT SEISMIC RESEARCH (CA)	2,000,000

## CONGRESSIONALLY DIRECTED SCIENCE PROJECTS

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**PROJECT**

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U. OF CHICAGO TO RESEARCH MULTI-MODALITY, IMAGE-BASED MARKERS FOR ASSESSING BREAST DENSITY & STRUCTURE TO DETERMINE RISK OF BREAST CANCER (IL)	600,000
U. OF DUBUQUE, ENVIRONMENTAL SCIENCE CENTER (IA)	1,000,000
U. OF LOUISVILLE REGIONAL NMR FACILITY IN LOUISVILLE, KENTUCKY, TO SUPPORT ONGOING RESEARCH IN FUNDAMENTAL PROCESSES OF ELECTRON TRANSPORT SYSTEMS AND THE STRUCTURAL BIOLOGY OF PROTEINS (KY)	1,000,000
U. OF MAINE IN ORONO, MAINE, FOR RESEARCH IN INTEGRATED FOREST PRODUCTS REFINERY TECHNOLOGY (ME)	1,000,000
U. OF MASSACHUSETTS AT BOSTON TO SUPPORT MARINE SYSTEMS RESEARCH (MA)	500,000
U. OF MISSISSIPPI MEDICAL CENTER IN JACKSON, MISSISSIPPI, TO FUND RESEARCH IN THE AREAS OF INCREASING EFFICIENCY BY REDUCING THE AMOUNT OF CONTRAST MEDIA NEEDED FOR CERTAIN PROCEDURES (MS)	600,000
U. OF NC COLLABORATIVE INITIATIVE IN BIOMEDICAL IMAGING (NC)	1,000,000
U. OF ND IN GRAND FORKS TO SUPPORT ANTIBODIES RESEARCH (ND)	2,500,000
U. OF NEBRASKA MEDICAL CENTER IN OMAHA TO CONDUCT NANOSCALE IMAGING OF PROTEINS (NE)	2,000,000
U. OF NEVADA, LAS VEGAS, NEVADA WATER IN THE 21ST CENTURY MULTI-DISCIPLINARY RESEARCH PROJECT (NV)	1,000,000
U. OF NEW MEXICO IN ALBUQUERQUE, NEW MEXICO, FOR THE MIND INSTITUTE ONGOING RESEARCH INTO BRAIN RELATED RESEARCH INCLUDING SUPPORTING RESEARCH OF MILITARY PERSONNEL SUFFERING FROM POST TRAUMATIC STRESS DISORDER, DEPRESSION AND TRAUMATIC BRAIN INJURIES (NM)	12,000,000
U. OF OKLAHOMA IN NORMAN, OKLAHOMA, FOR THE LARGE SCALE APPLICATION OF SINGLE-WALLED CARBON NANOTUBES (OK)	1,000,000
U. OF SAINT FRANCIS SCIENCE CENTER (IN)	721,000
U. OF SOUTHERN INDIANA ENGINEERING EQUIPMENT (IN)	750,000
U. OF VERMONT IN BURLINGTON TO CONDUCT RESEARCH OF MRI SCIENCE (VT)	1,000,000
U. OF VERMONT IN BURLINGTON TO SUPPORT RESEARCH IN AGRICULTURAL, ENVIRONMENTAL, AND BIOLOGICAL SCIENCES (VT)	3,000,000
ULTRA-DENSE SUPERCOMPUTING MEMORY STORAGE IN COLORADO FOR FURTHER RESEARCH IN THIS FIELD (CO)	1,000,000
UMASS INTEGRATIVE SCIENCE BUILDING (MA)	2,000,000
URBAN RESEARCH CENTER AND GREENHOUSE, BROOKLYN (NY)	500,000
USA CANCER INSTITUTE ONCOLOGY MEDICAL RECORD SYSTEM (AL)	500,000
WAKE FOREST UNIVERSITY RESEARCH ON ALTERNATIVES TO TRANSPLANTATION (NC)	1,000,000
WESTMINSTER COLLEGE SCIENCE CENTER (UT)	400,000
WIPP IN CARLSBAD, NEW MEXICO, TO SUPPORT NEUTRINO RESEARCH (NM)	1,500,000
XAVIER UNIVERSITY SCIENCE EQUIPMENT (OH)	500,000

## NUCLEAR WASTE DISPOSAL

The amended bill provides \$189,000,000 for Nuclear Waste Disposal instead of \$202,454,000 as proposed by the House and \$204,054,000 as proposed by the Senate. The amended bill also provides \$201,000,000 for Defense Nuclear Waste Disposal, \$91,046,000 less than the request. This provides a total of \$390,000,000 for the repository program in fiscal year 2008.

Funding under this heading in the amended bill provides funds for affected elements of state and local government including \$1,600,000 for the cooperative agreement between the Department of Energy and Inyo County, California.

The Department is directed to develop a plan to take custody of spent fuel currently stored at decommissioned reactor sites to both reduce costs that are ultimately borne by the taxpayer and demonstrate that DOE can move forward in the near-term with at least some element of nuclear waste policy. The Department should consider consolidation of the spent fuel from decommissioned reactors either at an existing federal site, at one or more existing operating reactor sites, or at a competitively-selected interim storage site. The Department should engage the sites that volunteered to host Global Nuclear Energy Partnership facilities as part of this competitive process.

The control level is at the Nuclear Waste Disposal account level, so the Department may move funding between the repository program and program direction subaccounts.

## ENVIRONMENT, SAFETY AND HEALTH

Following the specific request from the Department of Energy for congressional approval to transfer appropriations among accounts as part of the implementation of the Department's reorganization associated with the formation of the Office of Health, Safety and Security, the Committees on Appropriations have approved the request and provided funds formerly included in Environment, Safety and Health in the accounts for which they were requested. Consequently, the amended bill provides no funds for Environment, Safety and Health instead of \$31,625,000 as proposed by the House.

## INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM

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The amended bill restates loan guarantee authority as provided in the Energy Policy Act of 2005, and makes this authority available until September 30, 2009. The Department is directed to make no authority available in excess of \$38,500,000,000, to be allocated as follows: \$18,500,000,000 of loan guarantees are for nuclear power facilities; \$6,000,000,000 of loan guarantees are for coal-based power generation and industrial gasification activities at retrofitted and new facilities that incorporate carbon capture and sequestration or other beneficial uses of carbon; \$2,000,000,000 of loan guarantees are for advanced coal gasification; \$10,000,000,000 of loan guarantees are for renewable and/or energy efficient systems and manufacturing, and distributed energy generation, transmission and distribution; and \$2,000,000,000 of loan guarantees are for advanced nuclear facilities for the “front-end” of the nuclear fuel cycle.

Prior to the issuance of a loan guarantee solicitation, the Department of Energy is directed to submit a loan guarantee implementation plan within 45 days of a solicitation, defining the award levels and eligible technologies, to the Committees on Appropriations for approval. No funds can be made available for the execution of a loan guarantee solicitation until a plan is submitted and approved. Should the plan change after approval by the Committees, it must be submitted again for approval by the Committees. Funding under this heading in the amended bill includes \$5,500,000 for administrative expenses for the loan guarantee office, instead of \$2,390,000 as proposed by the House, and \$8,390,000 as proposed by the Senate. The amended bill includes a provision that enables the Department to credit loan guarantee fees as offsetting collections.