

1001 Civilian full-time equivalent employment ..... 876 .....

**NUCLEAR ENERGY**

(INCLUDING TRANSFER OF FUNDS)

For Department of Energy expenses including the purchase, construction, and acquisition of plant and capital equipment, and other expenses necessary for nuclear energy 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 any facility or for plant or facility acquisition, construction, or expansion, and the purchase of not to exceed [20] 29 passenger motor vehicles [for], including three new buses and 26 replacement [only] vehicles, including one ambulance, [\$970,525,000] \$853,644,000, to remain available until expended[: Provided, That \$233,849,000 is authorized to be appropriated for Project 99-D-143 Mixed Oxide (MOX) Fuel Fabrication Facility, Savannah River Site, South Carolina: Provided further, That the Department of Energy adhere strictly to Department of Energy Order 413.3A for Project 99-D-143]. (Energy and Water Development and Related Agencies Appropriations Act, 2008.)

**Program and Financing (in millions of dollars)**

Identification code 89-0319-0-1-999	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
Research and Development:			
00.02 NP2010 .....		137	241
00.03 Generation IV .....		115	70
00.04 Nuclear Hydrogen Initiative .....		10	17
00.05 Advanced Fuel Cycle Research (GNEP) .....		179	302
00.91 Research and Development .....		441	630
02.01 Program direction .....		81	81
02.02 Infrastructure .....		164	143
02.09 Mixed Oxide Fuel Fabrication Facility .....		278	
02.91 Other Nuclear Energy Programs .....		523	224
10.00 Total new obligations .....		964	854
<b>Budgetary resources available for obligation:</b>			
21.40 Unobligated balance carried forward, start of year .....			116
22.00 New budget authority (gross) .....		962	854
22.21 Unobligated balance transferred to other accounts .....			-116
22.22 Unobligated balance transferred from other accounts .....		118	
23.90 Total budgetary resources available for obligation .....	1,080		854
23.95 Total new obligations .....	-964		-854
24.40 Unobligated balance carried forward, end of year .....		116	
<b>New budget authority (gross), detail:</b>			
Discretionary:			
40.00 Appropriation .....	693		854
40.00 Appropriation (Mixed Oxide Fuel Fabrication Facility) .....	278		
40.33 Appropriation permanently reduced (P.L. 110-161) .....	-9		
43.00 Appropriation (total discretionary) .....	962		854
<b>Change in obligated balances:</b>			
72.40 Obligated balance, start of year .....			753
73.10 Total new obligations .....		964	854
73.20 Total outlays (gross) .....		-695	-843
73.32 Obligated balance transferred from other accounts .....		484	
74.40 Obligated balance, end of year .....		753	764
<b>Outlays (gross), detail:</b>			
86.90 Outlays from new discretionary authority .....	433		384
86.93 Outlays from discretionary balances .....	262		459
87.00 Total outlays (gross) .....	695		843
<b>Net budget authority and outlays:</b>			
89.00 Budget authority .....	962		854
90.00 Outlays .....	695		843

The FY 2009 budget continues to support the Nuclear Power 2010 program which partners with private industry to demonstrate key regulatory approval processes to encour-

age investments in new, advanced nuclear plants in the United States. The Budget continues to support the Advanced Fuel Cycle Initiative, including the Global Nuclear Energy Partnership, which aims to accelerate the development of technologies that will reduce the volume of high-level waste from spent nuclear fuel, reduce the long-term radiotoxicity of spent nuclear fuel, reduce the long-term proliferation threat posed by civilian inventories of plutonium in spent nuclear fuel, and recover the energy content in spent nuclear fuel in a manner that enhances proliferation-resistance. The Budget also supports the Generation IV Nuclear Energy Systems Initiative (Gen IV), through which the United States will participate in multinational research and development projects in support of next generation nuclear reactors. The Budget further supports the Nuclear Hydrogen Initiative, which will develop advanced technologies that can be used in tandem with Gen IV nuclear plants to generate economic, commercial quantities of hydrogen to support a sustainable, clean energy future for the United States. It is important to note that two Nuclear Energy activities, the Mixed Oxide Fuel Fabrication Facility and Safeguards and Security for Idaho National Laboratory are funded under the Other Defense Activities appropriation.

Nuclear Energy programs also support the Department's critical infrastructure necessary to enable research on advanced nuclear power systems for U.S. national security and other federal agencies, and to maintain and operate the Department's nuclear facilities in a safe, environmentally compliant, and cost-effective manner.

**Object Classification (in millions of dollars)**

Identification code 89-0319-0-1-999	2007 actual	2008 est.	2009 est.
<b>Direct obligations:</b>			
Personnel compensation:			
11.1 Full-time permanent .....		41	41
11.3 Other than full-time permanent .....		2	2
11.5 Other personnel compensation .....		2	2
11.9 Total personnel compensation .....		45	45
12.1 Civilian personnel benefits .....		5	5
21.0 Travel and transportation of persons .....		1	1
25.1 Advisory and assistance services .....		40	40
25.2 Other services .....		20	20
25.4 Operation and maintenance of facilities .....		442	143
25.5 Research and development contracts .....		380	569
26.0 Supplies and materials .....		1	1
32.0 Land and structures .....		30	30
99.9 Total new obligations .....		964	854

**Employment Summary**

Identification code 89-0319-0-1-999	2007 actual	2008 est.	2009 est.
<b>Direct:</b>			
1001 Civilian full-time equivalent employment .....		403	411

**ELECTRICITY DELIVERY AND ENERGY RELIABILITY**

For Department of Energy expenses including the purchase, construction, and acquisition of plant and capital equipment, and other expenses necessary for electricity delivery and energy reliability 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 any facility or for plant or facility acquisition, construction, or expansion, [\$140,000,000] \$134,000,000, to remain available until expended. (Energy and Water Development and Related Agencies Appropriations Act, 2008.)

**Program and Financing (in millions of dollars)**

Identification code 89-0318-0-1-999	2007 actual	2008 est.	2009 est.
<b>Obligations by program activity:</b>			
00.01 Research and Development .....		109	106