



Status of FY 2011 Budget and New Starts

Office of Nuclear Energy

June 15, 2011

FY 2010-12 Funding Summary (\$k)

Office of Nuclear Energy

Program	FY 2011 Request	FY 2011 Final CR Op. Plan	FY 2012 Request
Research, Development, & Demonstration			
Integrated University Program/RE-ENERGYSE	5,000	-	-
LWR SMR Licensing Technical Support	-	-	67,000
Reactor Concepts RD&D	195,000 ^a	168,535 ^a	125,000
Fuel Cycle Research and Development	201,000	187,615	155,010
Nuclear Energy Enabling Technologies	99,300	51,383	97,364
International Nuclear Energy Coop.	3,000	2,994	3,000
Infrastructure			
Radiological Facilities Management	66,818	51,714	64,888
Idaho Facilities Management	162,482	183,604	150,000
Idaho Sitewide S&S	88,200	88,200	98,500
Program Direction	91,452	86,279	93,133
Use of Prior Year Balances	-	-	-1,367
Total NE:	912,252	820,325	852,528

a) Includes \$20,000k planned for LWR SMR Licensing Technical Support



Overview of FY 2011 Operating Plan

Office of Nuclear Energy

■ Integrated University Program is not funded in FY 2011

- Path forward on new fellowships and scholarships is under discussion

■ Reactor Concepts RD&D

- Supports the Administration's commitment to a multiyear, \$452M program to support the accelerated commercial deployment of LWR Small Modular Reactors
- Supports new Light Water Reactor Sustainability R&D activities arising post-Fukushima, including accident assessment of the accident and acceleration of activities designed to better understand and address potential vulnerabilities for existing reactor technologies
- Next Generation Nuclear Plant Project activities focus on fuels and materials R&D in a lead up to the Secretarial determination on whether to proceed to Phase II

■ Fuel Cycle R&D

- Supports continued investigations of the once-through, modified open, and full recycle fuel strategies to develop innovative and transformational options within each.
- Continues work on various options for managing and dispositioning used nuclear fuel, including investigation of various geologic media and storage technologies.
- Draft report from Blue Ribbon Commission is expected soon



Overview of FY 2011 Operating Plan (con't)

Office of Nuclear Energy

■ Nuclear Energy Enabling Technologies

- Crosscutting Technology Development R&D activities focus on reactor materials, advanced sensors and instrumentation, advanced methods for manufacturing and proliferation risk assessment
- Modeling and Simulation Hub funding continues the development of the Virtual Environment for Reactor Analysis (VERA) code. The reduced funding reflects the use of carryover funding that resulted from the Hub's initiation in late FY 2010

■ Idaho Facilities Management

- Increased funding for IFM reflects upgrades to the Advanced Test Reactor to enhance safety and security as well as additional support for operations and maintenance of the ATR

■ Radiological Facilities Management

- Pu-238 Production Restart is not funded in FY 2011, consistent with Congressional marks during summer 2010.

The background of the slide features a photograph of a nuclear power plant with two large containment domes. The image is semi-transparent and overlaid with a green gradient bar at the bottom.

Overview of FY 2011 Operating Plan (con't)

Office of Nuclear Energy

- **Provisions within the full year Continuing Resolution required the Department to seek Congressional approval for initiation of new programs**
- **Small Modular Reactors**
 - The Department is working with the House and Senate Appropriations Committees to determine a path forward for the program for the remainder of the fiscal year
 - The Department is responding to questions from the June 7 Congressional hearing before the Senate Energy and Natural Resources Committee
- **NEET/Crosscutting Technology Development and International Nuclear Energy Cooperation**
 - The Department is working with the House and Senate Appropriations Committees to determine a path forward for these programs for the remainder of the fiscal year