

State of Rhode Island and Providence Plantations

# Budget



## Fiscal Year 2012

Lincoln D. Chafee, Governor

# The Agency

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## Rhode Island Atomic Energy Commission

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### Agency Operations

The Rhode Island Nuclear Science Center (RINSC) is used for medical, biological, environmental, and materials research, education and commercial activities. The staff runs the Radiation Safety Program for the University of Rhode Island. The Director serves on the State Radiation Advisory Commission and has taken over responsibility for low-level radioactive waste disposal activities.

The center's state-of-the-art analytic laboratories and equipment are currently being used for several environmental monitoring programs sponsored by the Department of Environmental Management, the Narragansett Bay Commission and other agencies. Several years ago, the facility completed a multi-year, \$3 million dollar reactor upgrade program financed through Department of Energy Grants. In 1993, the reactor was converted to a new low enriched uranium fuel system that has greatly reduced security requirements and associated costs while providing a significant improvement in performance. Subsequent grants have resulted in the addition of required mechanical and electronic equipment necessary to substantially increase reactor capability. These improvements will permit the RINSC to compete successfully for production of medical isotopes and will provide the necessary neutron flux to conduct Neutron Capture Therapy that is a promising new method of curing brain cancer and skin cancer. Engineering, design and fabrication work is currently in progress for the construction of a cancer treatment facility and researchers at Brown University, and the RINSC has received a grant to develop new compounds for use at this facility. This multi-year grant supports a collaborative effort with the Massachusetts Institute of Technology (MIT) to develop a successful treatment for one of the most deadly forms of brain cancer.

A laboratory for the development of new radio-pharmaceuticals has been completed by R.I. Consultants. This company recently developed a new method of utilizing radio-isotopes to prevent clogging of the arteries after angioplasty and they are currently developing new products for several research groups. BioPAL Incorporated is making extensive use of the reactor to conduct analysis of medical samples for a variety of treatment and research purposes. They have developed a new method of using medical isotopes that eliminate the dose to patients during diagnostic treatments. SubChem Systems Inc. has just completed a new laboratory building on the South Lab Wing for the development of underwater sensors for weapons of mass destruction. RINSC is located at the University of Rhode Island, Bay Campus, in Narragansett. The center contains a state-of-the-art nuclear counting system, laboratories, a mass spectrometer, a class-100 clean room and facilities for handling and storage of radioactive material. The Rhode Island Nuclear Science Center has operated on a daily basis without incident since 1962.

### Agency Objectives

To operate and maintain the facilities at the RINSC, to support projects in all areas and to actively seek commercial projects, and to provide assistance to other state agencies in their radiation and emergency response programs.

### Statutory History

R.I.G.L. 42-27 establishes the commission for matters relating to nuclear power.

# The Budget

## Rhode Island Atomic Energy Commission

	FY 2009 Actual	FY 2010 Actual	FY 2011 Enacted	FY 2011 Revised	FY 2012 Recommended
<b>Expenditures By Object</b>					
Personnel	921,023	880,891	1,012,867	1,013,605	1,052,190
Operating Supplies and Expenses	146,555	225,904	409,483	388,577	389,336
Aid To Local Units Of Government	-	-	-	-	-
Assistance, Grants and Benefits	-	-	-	-	-
<b>Subtotal: Operating Expenditures</b>	<b>\$1,067,578</b>	<b>\$1,106,795</b>	<b>\$1,422,350</b>	<b>\$1,402,182</b>	<b>\$1,441,526</b>
Capital Purchases and Equipment	51,495	34,928	70,000	70,000	70,000
Debt Service	-	-	-	-	-
Operating Transfers	-	-	-	-	-
<b>Total Expenditures</b>	<b>\$1,119,073</b>	<b>\$1,141,723</b>	<b>\$1,492,350</b>	<b>\$1,472,182</b>	<b>\$1,511,526</b>
<b>Expenditures By Funds</b>					
General Revenue	850,234	769,039	875,781	861,031	879,592
Federal Funds	51,548	130,200	300,159	314,104	324,104
Other Funds	217,291	242,484	316,410	297,047	307,830
<b>Total Expenditures</b>	<b>\$1,119,073</b>	<b>\$1,141,723</b>	<b>\$1,492,350</b>	<b>\$1,472,182</b>	<b>\$1,511,526</b>
<b>FTE Authorization</b>	<b>8.6</b>	<b>8.6</b>	<b>8.6</b>	<b>8.6</b>	<b>8.6</b>
<b>Agency Measures</b>					
Minorities as a Percentage of the Workforce	-	-	8.0%	8.0%	8.0%
Females as a Percentage of the Workforce	33.3%	44.4%	44.4%	44.4%	44.0%
Persons with Disabilities as a Percentage of the Workforce	11.0%	11.0%	11.0%	11.0%	11.0%
<b>Program Measures</b>					
Actual Operational Hours Spent as a Percentage of Operational Hour Goal of 1,820	25.0%	51.0%	51.0%	51.0%	51.0%
Actual Irradiations Provided as a Percentage of Irradiation Goal of 20,000 Sample Hours	14.0%	13.8%	13.8%	13.8%	13.8%