State of Rhode Island and Providence Plantations

Budget

Fiscal Year 2017

Volume III – Education

Gina M. Raimondo, Governor

Agency

Rhode Island Atomic Energy Commission

Agency Mission

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.

Agency Description

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

Statutory History

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

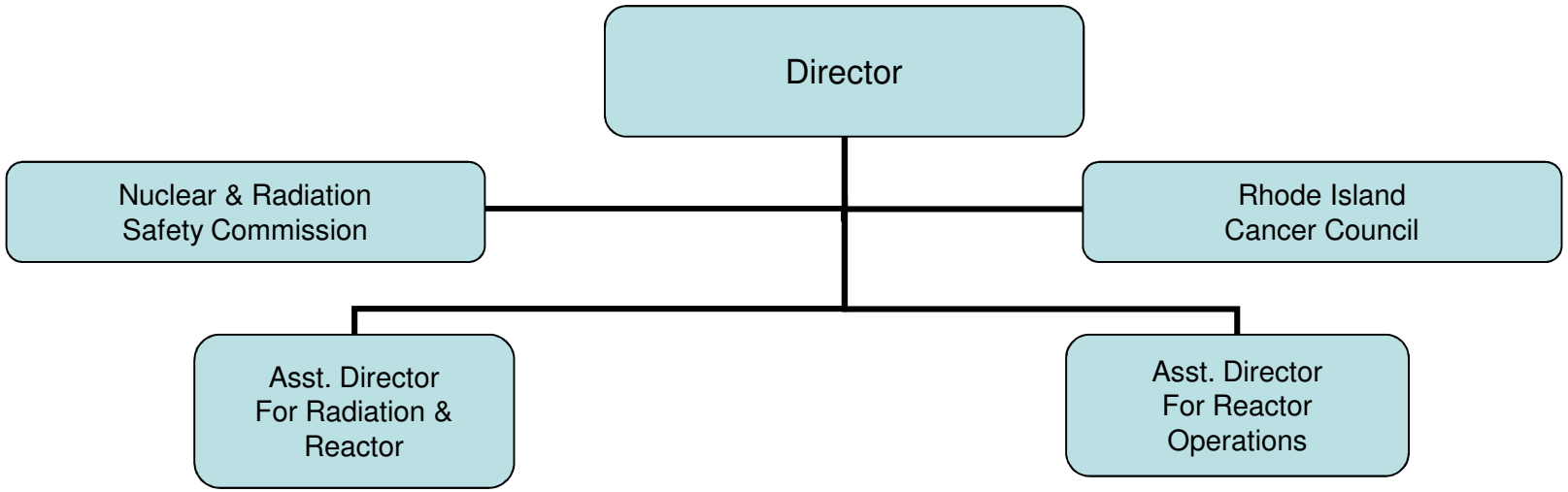
Budget

Rhode Island Atomic Energy Commission

	FY 2014 Audited	FY 2015 Audited	FY 2016 Enacted	FY 2016 Revised	FY 2017 Recommend
Expenditures By Program					
Central Management	1,133,765	1,187,852	1,337,169	1,604,090	1,350,935
Total Expenditures	**$1,133,765**	**$1,187,852**	**$1,337,169**	**$1,604,090**	**$1,350,935**
Expenditures By Object					
Personnel	887,321	963,656	1,117,843	1,022,823	1,072,839
Operating Supplies and Expenses	157,635	156,354	164,497	497,507	201,748
Subtotal: Operating Expenditures	**1,044,956**	**1,120,010**	**1,282,340**	**1,520,330**	**1,274,587**
Capital Purchases and Equipment	88,809	67,842	54,829	83,760	76,348
Total Expenditures	**$1,133,765**	**$1,187,852**	**$1,337,169**	**$1,604,090**	**$1,350,935**
Expenditures By Funds					
General Revenue	859,903	872,139	957,170	936,450	981,100
Federal Funds	12,301	89	54,699	325,555	50,308
Operating Transfers from Other Funds	261,561	315,624	325,300	342,085	319,527
Total Expenditures	**$1,133,765**	**$1,187,852**	**$1,337,169**	**$1,604,090**	**$1,350,935**
FTE Authorization	**8.6**	**8.6**	**8.6**	**8.6**	**8.6**

The Agency

Atomic Energy Commission



Personnel

Rhode Island Atomic Energy Commission
Central Management

	Grade	FY 2016 FTE	FY 2016 Cost	FY 2017 FTE	FY 2017 Cost
Classified					
DIRECTOR RI ATOMIC ENERGY COMMISSION	00150A	1.0	144,905	1.0	145,674
ASSISTANT DIRECTOR FOR OPERATIONS NUCLEAR	00139A	1.0	105,076	1.0	105,618
ASSISTANT DIRECTOR FOR RADIATION &	00139A	1.0	91,777	1.0	93,347
REACTOR SUPERVISOR NUCLEAR SCIENCE	00132A	1.0	68,059	1.0	71,906
HEALTH PHYSICIST	00130A	1.0	66,683	1.0	67,037
STATE BUILDING AND GROUNDS COORDINATOR	00132A	1.0	64,879	1.0	67,203
PRINCIPAL REACTOR OPERATOR	00128A	1.0	56,036	1.0	58,341
SENIOR WORD PROCESSING TYPIST	00112A	0.6	23,049	0.6	23,123
Subtotal		**7.6**	**$620,464**	**7.6**	**$632,249**
Unclassified					
INFORMATION SYSTEMS SPECIALIST	00816A	1.0	42,850	1.0	43,078
Subtotal		**1.0**	**$42,850**	**1.0**	**$43,078**
Temporary and Seasonal		-	12,000	-	12,889
Turnover		-	(9,656)	-	-
Subtotal		**-**	**$2,344**	**-**	**$12,889**
Total Salaries		**8.6**	**$665,658**	**8.6**	**$688,216**
Benefits					
Payroll Accrual			3,730		3,904
FICA			48,554		50,350
Retiree Health			39,023		40,317
Health Benefits			74,151		79,230
Retirement			161,324		178,144
Subtotal			**$326,782**		**$351,945**
Total Salaries and Benefits		**8.6**	**$992,440**	**8.6**	**$1,040,161**
Cost Per FTE Position (Excluding Temporary and Seasonal)			**$114,005**		**$119,450**
Statewide Benefit Assessment			**$30,068**		**$32,078**
Payroll Costs		**8.6**	**$1,022,508**	**8.6**	**$1,072,239**
Purchased Services					
Other Contracts			315		600
Subtotal			**$315**		**$600**
Total Personnel		**8.6**	**$1,022,823**	**8.6**	**$1,072,839**
Distribution By Source Of Funds					
General Revenue		6.8	$834,856	6.8	$879,910
Operating Transfers from Other Funds		1.8	$187,967	1.8	$192,929
Total All Funds		**8.6**	**$1,022,823**	**8.6**	**$1,072,839**

Performance Measures

Rhode Island Atomic Energy Commission

Results of Biannual Nuclear Regulatory Commission (NRC) Inspection

The NRC inspects the facility biannually to ensure compliance with Federal regulations. All violations and their level of severity are cited in the NRC report. The figures below represent the number of violations cited in the Atomic Energy Commission's bi-annual inspection.

	2013	2014	2015	2016	2017
Target	--	--	--	--	--
Actual	--	--	--	--	--

Performance for this measure is reported by state fiscal year.

Sample Hours

The figures below represent the number of hours the reactor is used on a per sample basis.

	2013	2014	2015	2016	2017
Target	3,000 Hours	3,200 Hours	3,200 Hours	3,200 Hours	3,200 Hours
Actual	2,128 Hours	10,925 Hours	15,462 Hours	--	--

Performance for this measure is reported by state fiscal year.

Rhode Island Nuclear Science Center (RINSC) Outreach

The RINSC hosts students from local junior high schools, high schools, and universities. The RINSC also participates in the University of Rhode Island Graduate School of Oceanography’s annual Day at the Bay. Each public tour takes approximately two hours to complete. The figures below represent the number of hours the RINSC staff interact with the public.

	2013	2014	2015	2016	2017
Target	800 Hours	800 Hours	800 Hours	800 Hours	800 Hours
Actual	792 Hours	1,308 Hours	1,422 Hours	--	--

Performance for this measure is reported by state fiscal year.

Service Hours

The figures below represent the amount of time spent providing assistance to agencies outside the RIAEC, such as hospitals, emergency personnel, etc.

	2013	2014	2015	2016	2017
Target	30 Hours	30 Hours	30 Hours	300 Hours	300 Hours
Actual	8 Hours	631 Hours	798 Hours	--	--

Performance for this measure is reported by state fiscal year.