Gina M. Raimondo,
Governor

State of Rhode Island and
Providence Plantations

Fiscal Year 2018

Budget

Volume III – Education

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 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, and 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.

Statutory History

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

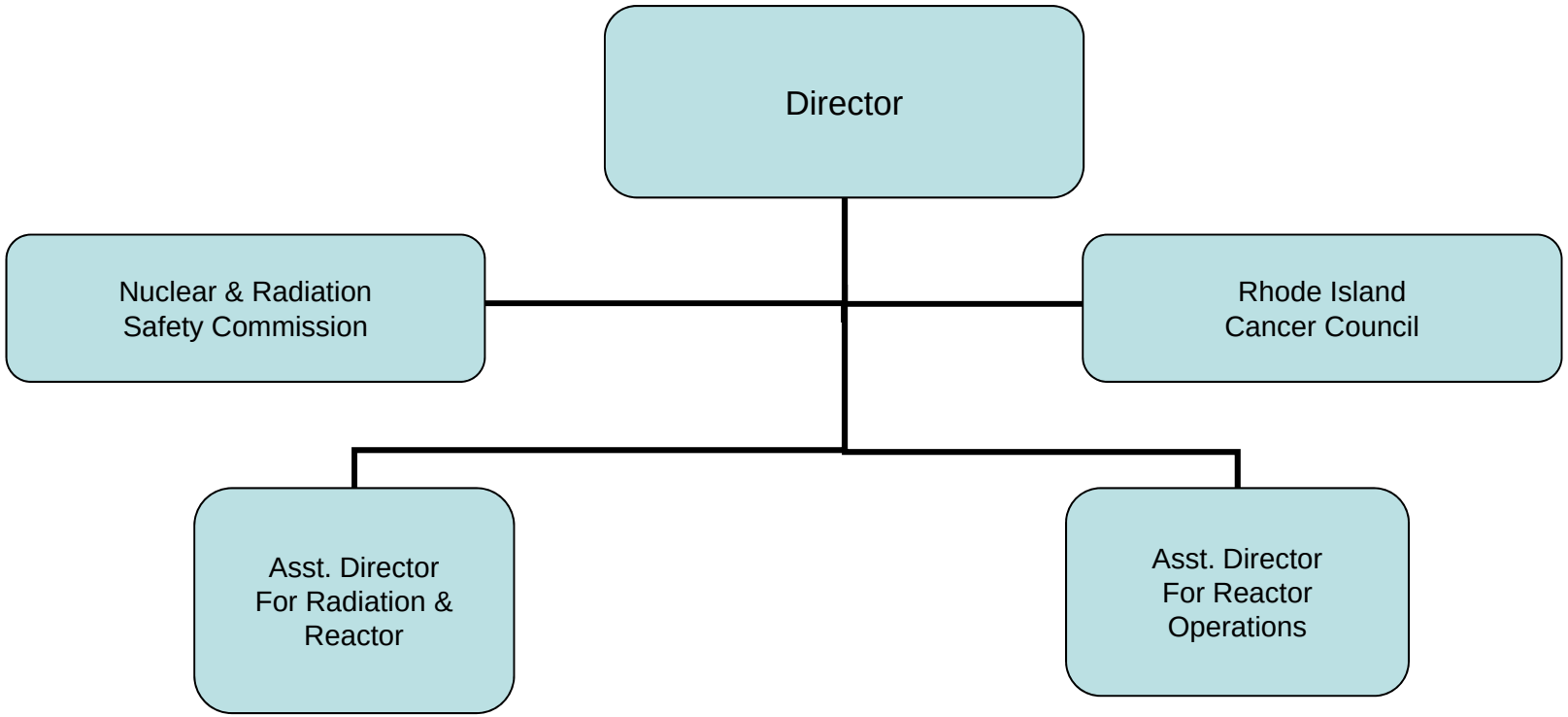
Budget

Rhode Island Atomic Energy Commission

	FY 2015 Audited	FY 2016 Audited	FY 2017 Enacted	FY 2017 Revised	FY 2018 Recommend
Expenditures By Program					
Central Management	1,187,852	1,576,882	1,333,049	1,539,039	1,304,373
Total Expenditures	**$1,187,852**	**$1,576,882**	**$1,333,049**	**$1,539,039**	**$1,304,373**
Expenditures By Object					
Personnel	963,656	1,011,140	1,072,839	1,077,861	1,088,287
Operating Supplies and Expenses	156,354	168,329	183,862	194,935	149,806
Subtotal: Operating Expenditures	**1,120,010**	**1,179,469**	**1,256,701**	**1,272,796**	**1,238,093**
Capital Purchases and Equipment	67,842	397,413	76,348	266,243	66,280
Total Expenditures	**$1,187,852**	**$1,576,882**	**$1,333,049**	**$1,539,039**	**$1,304,373**
Expenditures By Funds					
General Revenue	872,139	908,285	981,100	979,682	982,157
Federal Funds	89	336,542	32,422	228,863	-
Operating Transfers from Other Funds	315,624	332,055	319,527	330,494	322,216
Total Expenditures	**$1,187,852**	**$1,576,882**	**$1,333,049**	**$1,539,039**	**$1,304,373**
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 2017 FTE	FY 2017 Cost	FY 2018 FTE	FY 2018 Cost
Classified					
DIRECTOR RI ATOMIC ENERGY COMMISSION	00150A	1.0	145,674	1.0	145,674
ASSISTANT DIRECTOR FOR OPERATIONS NUCLEAR	00139A	1.0	105,617	1.0	105,617
ASSISTANT DIRECTOR FOR RADIATION &	00139A	1.0	93,347	1.0	93,347
REACTOR SUPERVISOR NUCLEAR SCIENCE	00132A	1.0	72,048	1.0	72,473
STATE BUILDING AND GROUNDS COORDINATOR	00132A	1.0	67,203	1.0	70,064
HEALTH PHYSICIST	00130A	1.0	67,036	1.0	67,036
PRINCIPAL REACTOR OPERATOR	00128A	1.0	58,421	1.0	61,277
SENIOR WORD PROCESSING TYPIST	00112A	0.6	23,306	0.6	23,306
Subtotal		**7.6**	**$632,652**	**7.6**	**$638,794**
Unclassified					
INFORMATION SYSTEMS SPECIALIST	00816A	1.0	43,078	1.0	43,078
Subtotal		**1.0**	**$43,078**	**1.0**	**$43,078**
Overtime		-	-	-	13,875
Temporary and Seasonal		-	12,889	-	-
Subtotal		**-**	**$12,889**	**-**	**$13,875**
Total Salaries		**8.6**	**$688,619**	**8.6**	**$695,747**
Benefits					
Payroll Accrual			3,905		3,936
FICA			50,071		50,727
Retiree Health			40,342		40,776
Health Benefits			85,350		89,150
Retirement			178,295		177,551
Subtotal			**$357,963**		**$362,140**
Total Salaries and Benefits		**8.6**	**$1,046,582**	**8.6**	**$1,057,887**
Cost Per FTE Position (Excluding Temporary and Seasonal)			**$120,197**		**$123,010**
Statewide Benefit Assessment			**$30,679**		**$29,313**
Payroll Costs		**8.6**	**$1,077,261**	**8.6**	**$1,087,200**
Purchased Services					
Other Contracts			600		1,087
Subtotal			**$600**		**$1,087**
Total Personnel		**8.6**	**$1,077,861**	**8.6**	**$1,088,287**
Distribution By Source Of Funds					
General Revenue		6.8	$883,860	6.8	$893,346
Operating Transfers from Other Funds		1.8	$194,001	1.8	$194,941
Total All Funds		**8.6**	**$1,077,861**	**8.6**	**$1,088,287**

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.

	2014	2015	2016	2017	2018
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. One researcher whose project was completed at the beginning of FY16 had been responsible for approximately 8,000 to 13,000 irradiation hours each year.

	2014	2015	2016	2017	2018
Target	3,200 Hours	3,200 Hours	3,200 Hours	3,200 Hours	3,200 Hours
Actual	10,925 Hours	15,462 Hours	1,332 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.

	2014	2015	2016	2017	2018
Target	800 Hours	800 Hours	800 Hours	800 Hours	1,000 Hours
Actual	1,308 Hours	1,422 Hours	1,266 Hours	--	--

Performance for this measure is reported by state fiscal year.

Instruction Hours

The figures below represent classroom use as well as staff time spent teaching college-level courses.

	2014	2015	2016	2017	2018
Target	200 Hours	200 Hours	200 Hours	300 Hours	500 Hours
Actual	179 Hours	454 Hours	1,941 Hours	--	--

Performance for this measure is reported by state fiscal year.