



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: To prevent disease of environmental origin **Bureau of Radiation Control – Radioactive Materials**

Trends and Conditions:

Florida is one of 34 “Agreement States” that regulate the use of radioactive materials in lieu of and in agreement with the U.S. Nuclear Regulatory Commission (NRC). Agreement States regulate 80% of the radioactive materials usage in the United States. Florida has over 1,600 licensees, which is the third largest number of licenses among the Agreement States, and regulates over 7% of the radioactive materials usage in the United States. The NRC conducts audits of each Agreement State Program that are a performance-based review of the previous four years using seven performance indicators. During February 2003, a six-person audit team spent two weeks auditing the Radioactive Materials Program. The team found the program to be “Satisfactory” in all performance indicators, and gave an over-all finding of “Satisfactory” which is the highest possible finding. The NRC designated that the program is “Adequate to Protect Public Health and Safety and Compatible with the U.S. Nuclear Regulatory Commission” and scheduled the next audit for February 2007. The audit team also found that Florida has a “good practice” of requiring new licenses for companies who undergo a change of ownership and promptly inspecting these licensees. This not only protects public health and safety but also promotes the common defense and security of materials. Florida’s audit received additional scrutiny because representatives of the United States Government Accounting Office (GAO) accompanied the audit team to determine whether the audit process can be adapted to other federal-state relationships.

Division Cost: \$2,781,199

Division Positions: 15

County Program Cost: None

County Positions: None

New medical and industrial technologies centered on unique and high-risk uses of radioactive material continue to emerge and require an increasing focus of resources in the development of standard use procedures and processes to ensure that public health, public safety, and the environment are protected. Recently developed medical technologies include the use of balloon treatment catheters filled with high activities of liquid Iodine 125 to treat brain tumors, the use of Yttrium 90 coated microspheres that are injected directly into the liver to treat liver cancer, Strontium-82/Rubidium 82 generators have been developed to provide Rubidium 82 as a heart imaging agent, and new implant sources and delivery methods have been approved for the treatment of breast cancer and prostate cancer. Monitoring programs authorizing the release of patients containing very large quantities of Iodine 131 or Yttrium 90 administered as a monoclonal antibody for the treatment of a variety of cancers remains challenging. Florida has recently received its first application for a mobile high dose rate remote afterloader, also used for cancer treatments. A new application on the horizon is the Mobile Nuclear Pharmacy for the production of Oxygen-15.

For industrial purposes, new technologies and uses include contraband detection systems containing high activities of Cobalt 60 placed on vehicles. These detection systems are capable of producing density images of whole vehicles and large cargo boxes. Several of these detector systems travel our highways and are located at the major sea ports and airports. In response to the September 11, 2001 attacks, several companies have been licensed to develop and distribute devices containing radioactive material used to detect airborne chemical and biological agents. These products are targeted to law enforcement agencies and first responders, although some are becoming available to the general public.



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: To prevent disease of environmental origin **Bureau of Radiation Control – Radioactive Materials**

The NRC has required that we place increased security requirements on licensees who possess certain isotopes in large quantities. Managing and inspecting these licensees has increased our workload. Due to the complexity of the security issue we have started the development of training modules for licensing and inspection staff and are assessing the training needs of the clerical staff. Florida and other Agreement States will be closely monitored by the NRC Commissioners to ensure that the security of radioactive materials under these licenses is properly addressed.

Next year we will begin promulgating rules modifying the medical use of radioactive materials with additional emphasis placed on high radiation risk procedures. In addition, we recently finished promulgating rules providing additional security requirements to secure portable devices containing radioactive materials from theft and providing additional accountability for generally licensed devices containing large amounts of radioactive materials. We are redistributing resources to determine quantities of radioactive materials that individuals are licensed to possess and track this information in a database. This database will be used to assist federal, state and local law enforcement and emergency management agencies to increase their awareness of quantities of radioactive materials that may need additional attention due to an emergency situation or terrorist activity. Resources continue to be used to support more active participation in federal, state, and national organizations such as the Organization of Agreement States, Inc., and Conference of Radiation Control Program Directors, Inc. (CRCPD), who is developing national standards for the licensing, inspection, and security of radioactive materials. During last year, staff participated in the American College of Radiology and Society of Nuclear Medicine national meetings and a CRCPD sponsored symposium in communicating to stakeholders the regulatory issues where national standards are being developed. Bureau staff are members of several NRC working groups charged with developing national regulations for increased security of radioactive materials, and National Materials Pilot Project 4 which involves Agreement State Assumption of Responsibility for Development of Guidance with New Use or Modality Not Previously Received and Approved by NRC.

We obtained equipment and software for a document imaging system and have developed and implemented a process for the system. A legislative budget request (LBR) was submitted and approved by the Department to fund outsourcing of the scanning to digitally store all of our license files. We are awaiting approval of the Legislature to proceed with the outsourcing. If the LBR is not approved, additional personnel may be necessary to implement the process. In addition, we have developed and implemented a process to list medical physicists on medical radioactive material licenses who are authorized for therapeutic radioactive materials so no gap in services will occur due to future required NRC rule changes.

The radioactive materials program changed its record retention schedule in December of 2006 for terminated specific and general license files from permanent to 20 years for high risk specific licenses, 7 years for low risk specific licenses, and 5 years for general licenses. These changes will allow the program to reduce its large file space by destroying older records and archiving the other terminated files that have not exceeded their retention time span.

Weekly staff meetings now occur using SharePoint to save meeting minutes, review and make comments on draft documents and even provide access to area office inspection staff for review and comment. This allows all staff, license evaluators and inspectors, to view, review, and comment on anything at any time. In the future as the staff become accustomed to this open forum type of business, we will all be better informed, educated efficient and more professional. In addition to these uses of software to better connect the offices, we have developed and initiated a new



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: To prevent disease of environmental origin **Bureau of Radiation Control – Radioactive Materials**

procedure for the receipt of inspection reports from the field inspection offices. The new procedures utilize fax and e-mail to quickly receive inspection reports from the field office to our Inspection Coordinator in Tallahassee and cuts the response time to the licensee about the results of their inspection. This new procedure will enhance our professional relationship between offices and the licensee.

The extensive use of committees to develop application guides, checklists, information notices and provide new information began in January 2007. We believe the use of committees to provide weekly status reports and documents in staff meetings will enhance knowledge and proficiency of the office as a whole, both license and inspection staff. Since these committees are providing weekly updates at staff meetings and all meeting minutes and documents are on SharePoint, all staff are provided “real time” information on where the program is going and what we are thinking.

Short Term Objectives

By January 1, 2008:

- Continue to develop implementation processes and transition to document imaging system through a committee.
- Revise and update medical application regulatory guide upon promulgation of rules.
- Continue to update and prepare guidance documents to assist applicants and staff in preparing, evaluating and inspecting license documents.
- Develop an information notice to assist patients who have received radioactive materials for medical procedures to navigate through security systems while traveling domestically and internationally.
- Prepare and submit NRC required rule package.
- Revise and update the portable gauge guide.
- Develop and implement an industrial radiography guide.
- Develop a high dose rate remote afterloader guide.

Long Term Objectives

By January 1, 2009:

- Continue transition to document imaging system to meet Bureau goal by 2010.
- Evaluate the need for rules to address increased security requirements for licensees who possess certain isotopes in quantities of concern.



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: To prevent disease of environmental origin
Bureau of Radiation Control – Radioactive Materials

By January 1, 2010:

- Complete licensed authorization listing of radioactive materials sealed source database.
- Prepare for the U.S. NRC audit of the program in February 2011.
- Seek additional funding for two additional full time employees, one Environmental Specialist II and one Regulatory Specialist to support the growth of the program and its responsibilities.

Measure #1: Issue licenses within 30 days after receiving completed applications.

Division Strategic Plan		Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
BRC Mission	Protect the people and the environment from unnecessary radiation exposure	Issue or deny licenses or request additional information within 30 days.	As stated in strategy.	Paul Vause Radioactive Materials Program Staff	Ongoing	Of the 1,874 requests for licensing actions received between 7/1/05-6/30/06, 90% were responded to within 30 days.
Objective 2 and 3	Promote and support training and innovation by supplying staff with needed skills and tools to enhance quality.	Assure that 99 percent of licensing actions issued are free of errors that require issuance of a “CORRECTED COPY” action. This does not include errors due to incorrect information provided by licensees or applicants.	As stated in strategy.	Paul Vause Radioactive Materials Program Staff	Ongoing	Of the 1,888 licensing actions performed, 99% were issued free of errors between 7/1/05-6/30/06.

Measure #2: Require licensees to provide corrective actions to all violations within 90 days.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: "Promote and Protect Health"

Vision: "Healthier Floridians"

Goal: To prevent disease of environmental origin
Bureau of Radiation Control – Radioactive Materials

BRC Mission	Protect the people and the environment from unnecessary exposure to radiation exposure	Assure that licensees submit corrections to all violations within 90 days.	As stated in strategy.	Paul Vause Charles Hamilton	Ongoing	98% of licensees inspected from 7/1/05-6/30/06 with violations were brought into compliance within 90 days.
Objective 1	Be the best communicators and educators by providing quality, timely information to licensees.	Notify radioactive materials licensees of inspection findings within 30 days.	As stated in strategy.	Paul Vause Charles Hamilton	Ongoing	Of the 803 inspections from 7/1/05-6/30/06, 91.5% were notified of findings within 30 days.

Measure #3: Perform all radioactive material investigations.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
Objective 2	Use our data for corrective action.	Investigate allegations of misuse of radioactive material timely.	Paul Vause Charles Hamilton	Ongoing	N/A

Measure #4: Implement and maintain a radioactive materials program compatible with U.S. Nuclear Regulatory Commission through promulgation of rules and procedures.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
BRC Mission	Protect the people and the environment	Implement a radioactive materials program compatible with the U.S.	Mike Stephens Paul Vause Charles Hamilton	Ongoing	A full IMPEP audit by NRC is scheduled for February 12-16, 2007.



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: To prevent disease of environmental origin
Bureau of Radiation Control – Radioactive Materials

	from unnecessary radiation exposure	Nuclear Regulatory Commission.	Florida’s program is adequate to protect public health and compatible with their program.	Radioactive Materials Program Staff		
BRC Mission	Protect the people and the environment from unnecessary radiation exposure	Promulgate rules that will place appropriate emphasis on high risk medical procedures that use radioactive materials.	As stated in strategy. Compatible with U.S. Nuclear Regulatory Commission standards.	Mike Stephens Janet Cooksey	Ongoing	NRC has made changes to important sections of this rule. Also proposed revisions have been received by NRC as requested by Florida and 29 other states that are currently being evaluated by NRC. Until a final determination is made by NRC, it is recommended that we take no rule making action.
BRC Mission	Protect the people and the environment from unnecessary radiation exposure	Request and secure Governor’s signature indicating Florida’s rules and authority meet the Federal Energy Policy Act in regard to the requirements for NARM and radium.	As stated in strategy. Compatible with U.S. Nuclear Regulatory Commission.	Mike Stephens Paul Vause	May 1, 2007	Language being drafted to submit to new administration.
Objective 5	Increase financial diversity and flexibility.	Promulgate rules that will increase radioactive materials fees and cleanup language in other areas.	As stated in strategy.	Mike Stephens Paul Vause Janet Cooksey	July 1, 2007	Rule development notice sent to FAW to be published 2/9/2007. Rule workshop scheduled for 2/27/2007.
BRC Mission	Protect the people and the environment from unnecessary radiation exposure	National source tracking rule that is currently being worked on at a federal level that may be required in November pending NRC’s review of software for security issues.	As stated in strategy. Compatible with U.S. Nuclear Regulatory Commission.	Mike Stephens	November, 2007	Currently waiting on review of software by NRC.



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: To prevent disease of environmental origin
Bureau of Radiation Control – Radioactive Materials

Objective 1 and 4	Be the best communicators and educators by using the CRCPD and other national organizations to promote safe use of radiation and support community outreach by getting the best products to all state radiation control programs to ensure quality community service.	Increase participation in federal, state, and national organizations to develop standards used in regulating, inspection and licensing radioactive materials.	As stated in strategy. Coordinate with U.S. Nuclear Regulatory Commission in developing national standards.	Paul Vause Mike Stephens Radioactive Materials Program Staff	Ongoing	Currently two program staff are working on committees to help develop national standards. Staff has provided comments to the NRC working group currently developing national priorities.
BRC Mission	Protect the people and the environment from unnecessary radiation exposure	Secure radioactive materials license files that have been identified as increased security files.	As stated in strategy. Coordinate with U.S. Nuclear Regulatory Commission in developing national standards.	Paul Vause Mike Stephens Charlie Hamilton Radioactive Materials Program Staff	Ongoing	Security committee established to address security needs and develop procedures for local and area office staff to prevent unauthorized access to the increased security license files.
Objective 1, 2	Be the best communicators and educators by providing our data electronically to our staff and the public.	Use digital information systems such as SharePoint, e-mail, faxes and the Bureau’s website to provide information notices, guides, rules and other information quickly and efficiently to program	As stated in strategy.	Paul Vause Radioactive Materials Program Staff	Ongoing	Currently in the final stages of beta testing. Full implementation expected by December 2007.



Business Plan 2007 – Division of Environmental Health - Florida Department of Health

Mission: "Promote and Protect Health"

Vision: "Healthier Floridians"

Goal: To prevent disease of environmental origin
Bureau of Radiation Control – Radioactive Materials

		staff and the public.				
--	--	-----------------------	--	--	--	--