

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF HEALTH

Safe and Healthy Lives in Safe and Healthy Communities

17 October 2002

James L. Lynch
Regional State Agreement Officer
USNRC Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

Dear Mr. Lynch:

The "Integrated Materials Performance Evaluation Program Questionnaire" has been completed. If there is any additional information needed, prior to your visit, please contact me at 401-222-2438 or via email at my office email jackf@doh.state.ri.us or at my home email address; dukedeb@aol.com.

I also want to thank you for the heads-up re: the GAO accompaniment.

Very truly yours,



John L. Ferruolo
Supervising Radiological Health Specialist
Office of Occupational and
Radiological Health

Enclosures

Email copy : Duncan White , NRC Region I

CANNON BUILDING, Three Capitol Hill, Providence, Rhode Island 02908-5097
Hearing/Speech Impaired, Dial 711 or Call 1-800-745-5555 (TTY)
Web Site: www.healthri.org

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INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM

QUESTIONNAIRE

Name of State Program: Rhode Island
Reporting Period: 30 July 1998, to 18 November 2002

A. COMMON PERFORMANCE INDICATORS

I. Status of Materials Inspection Program

1. Please prepare a table identifying the licenses with inspections that are overdue by more than 25 percent of the scheduled frequency set out in NRC Inspection Manual Chapter 2800. The list should include initial inspections that are overdue.

◆ **SEE ATTACHED: TABLE AI-1 OVERDUE INSPECTIONS print date 10/15/02**

- ◆ Do you currently have an action plan for completing overdue inspections? If so, please describe the plan or provide a written copy with your response to this questionnaire.

◆ **SEE ATTACHED: ACTION PLAN**

2. Please identify individual licensees or groups of licensees the State/Region is inspecting more or less frequently than called for in NRC Inspection Manual Chapter 2800 and state the reason for the change.

- ◆ At this time there are no licensees inspected more frequently than called for in Chapter 2800. A number of licensees' inspection frequencies had been extended. However at this time many of them are also overdue. The overdue status is primarily due to disruption in staffing. Although the State has made attempts to rebuild the program the staff hired need baseline training in radiological health, licensing and inspection procedures in addition to specific training in industrial radiography, nuclear medicine and transportation.

¹ Estimated burden per response to comply with this voluntary collection request: 53 hours. Forward comments regarding burden estimate to the Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0183), Office of Management and Budget, Washington, DC 20503. If an information collection does not display a currently valid OMB control number, NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

3. Please complete the following table for licensees granted reciprocity during the reporting period.

TABLE: AI-4

Priority	Number of Licensees Granted Reciprocity Permits Each Year	Number of Licensees Inspected Each Year
Service Licensees performing teletherapy and irradiator source installations or changes 3.4 licensees ave/5yr period	1998--3 1999--3 2000--4 2001--3 2002--4-[YTD]	1998--0 1999--0 2000--1 2001--0 2002 --1-[YTD]
1	1998--4 1999--7 2000--4 2001--4 2002--3-[YTD]	1998--3 1999--0 2000--0 2001--0 2002 --0-[YTD]
2	1998--0 1999--0 2000--0 2001--0 2002 --1-[YTD]	1998--0 1999--0 2000--0 2001--0 2002 --0-[YTD]
3	1998 1999 2000 2001 2002 [YTD]	1998 1999 2000 2001 2002 [YTD]
4	NOT APPLICABLE	
All Other Priority 5-7 gauge licenses + 1 Non-QMP priority 5 medical	1998--2 1999--6 2000--1 2001--4 2002--3-[YTD]	1998--1 1999--0 2000--0 2001--0 2002--0-[YTD]

NOTE: From 1998 to 2000 the Radiation Control Agency experienced a number of changes in staffing and also in data collection programs which impacted on the documentation and completeness of the information. The information contained in Table 1 from 1998 through 2001 was compiled by searching through available reciprocity files. With the implementation of an annual reciprocity licensing program in January 2002 this information is more readily documented, retrievable and accurate.

4. For NRC Regions, did you establish numerical goals for the number of inspections to be performed during this review period? If so, please describe your goals, the number of inspections actually performed, and the reasons for any differences between the goals and the actual number of inspections performed.--NOT APPLICABLE

II. Technical Quality of Inspections

5. What, if any, changes were made to your written inspection procedures during the reporting period?

- ◆ The inspection procedures have not changed appreciably during this reporting period. NRC inspection manuals are utilized to set the stage for the inspection process. RI RCA inspections have routinely been, in essence performance based, which is supported by or with investigational actions dictated by record and their level of completeness.
- ◆ Inspection forms, in use during this instructional phase from 2001 to date, remain unchanged. Implementation of newly generated inspection forms would be effected after changes in RCA regulations. It was felt that utilization of the "old" forms would be helpful during the instructional phase. The inspector could refer to previous inspection entries for direction/assistance in the inspection process in stead of having to learn a new mechanism that the instructor also needs to become familiar with.

6. Prepare a table showing the number and types of supervisory accompaniments made during the review period. Include:

<u>Inspector</u>	<u>Supervisor</u>	<u>License Cat.</u>	<u>Date.</u>
<u>Charma Clay*</u>	<u>J. Ferruolo</u>	<u>02400 veterinary</u>	<u>5 Dec 2002 training</u>
<u>Charma Clay*</u>	<u>J. Ferruolo</u>	<u>02200 med pvt practice</u>	<u>8 Jan 2002 training + 14 Jan audit</u>
<u>Dennis Klaczynski*</u>	<u>J. Ferruolo</u>	<u>03320 industrial 3D-095-01</u>	<u>19 July 2002 training</u>
<u>Dennis Klaczynski*</u>	<u>J. Ferruolo</u>	<u>02200 medical-QMP</u>	<u>17 July 2002 training</u>
<u>Dennis Klaczynski*</u>	<u>J. Ferruolo</u>	<u>02201 medical no QMP</u>	<u>11 Sept 2002 audit-training</u>
<u>Dennis Klaczynski*</u>	<u>J. Ferruolo</u>	<u>03121 portable gauge</u>	<u>11 Sept 2002 training</u>

***NOTE: ACCOMPANIMENTS CONSIDERED TRAINING-MENTORING EXERCISES. SUPERVISORY ACCOMPANIMENTS-AUDITS WILL BE IN EFFECT ONCE NEW EMPLOYEES HAVE CONDUCTED A NUMBER OF INSPECTIONS / CATEGORY.**

7. Describe internal procedures for conducting supervisory accompaniments of inspectors in the field.

- ◆ Accompanied visits will be predicated on a number of qualifiers inclusive of, but not limited to the following:

- ◆ Complexity of inspection or newness of category for the inspector. [e.g., changes in licensed material and use.]
 - ◆ Core inspections will be given priority for accompaniments.
 - ◆ Track record of the inspector [e.g., difficulties observed in the completeness of reports for certain licensees or per discussions concerning the inspections performed] will provide direction re: accompaniments.
 - ◆ Targeting licensees with atypical inspection findings as compared to previous inspections or inspector findings. Example: Previous inspection of a licensee had routine clear findings, there were no major program changes for the licensee and new inspector has multitude of violations. The converse would also provide direction re: accompaniments.
8. Describe or provide an update on your instrumentation and methods of calibration. Are all instruments properly calibrated at the present time? Were there sufficient calibrated instruments available through the review period?
- ◆ Instrumentation currently available to the RCA is identified in Table AII-9 attached. Calibration frequencies have been modified since 1998 due to availability of personnel and other factors. From 1998 to 1 Jan 2002 calibrations were performed by RCA personnel at the RI Nuclear Science Center. Effective 1 January 2002 an MOU with the Nuclear Science Center was modified to include calibration of all RCA instrumentation by Nuclear Science Ctr. Staff or, on an as needed basis, by RCA personnel (Copy attached). Effective 1 January 2002 calibrations are being performed annually-(every 12 months)-on a quarterly rotation to allow equipment availability in the office to respond to emergency situations and conduct inspections.
 - ◆ As of this date all instruments routinely used by the RCA are properly calibrated.
 - ◆ Yes, instrumentation for the periods from 1998 to 1999 and 2001 to date was/is sufficiently calibrated, functional and available during this period.
 - ◆ With the recent hiring of a new industrial hygienist it is intended that this calibration frequency will also be complimented by more regular preventative maintenance and pulser checks as applicable.

III. Technical Staffing and Training

9. Please provide a staffing plan, or complete a listing using the suggested format below, of the professional (technical) person-years of effort applied to the agreement or radioactive material program by individual. Include the name, position, and, for Agreement States, the fraction of time spent in the following areas: administration, materials licensing and compliance, emergency response, LLW, U-mills, other. If these regulatory responsibilities are divided between offices, the table should be consolidated to include all personnel contributing to the radioactive materials program. Include all vacancies and identify all senior personnel assigned to monitor work of junior personnel. If consultants were used to carry out the program's radioactive materials responsibilities, include their efforts. The table heading should be:

<u>Name</u>	<u>Position</u>	<u>Area of Effort</u>	<u>FTE%</u>
<u>Dennis Klaczynski</u>	<u>Radiological Health Spec.</u>	<u>Licensing, & Inspection</u>	<u>50/50</u>
<u>Charma Clay</u>	<u>Industrial Hygienist</u>	<u>Ltd. Inspections</u>	<u>5</u>
<u>Shelley Regan</u>	<u>Industrial Hygienist</u>	<u>Emergency response</u>	
<u>Bill Dundulis</u>	<u>Risk Assessment Toxicologist</u>	<u>Specialized licensing: Ltd inspections; emergency response, regulation/policy development & SSD review</u>	<u>15/3/1/5/ 1</u>
<u>Jack Ferruolo</u>	<u>Supervising Radiological Health Specialist</u>	<u>Administration, Licensing, Inspection,(Training), Emergency response</u>	<u>25/15/20 /10</u>

10. Please provide a listing of all new professional personnel hired since the last review, indicate the degree(s) they received, if applicable, and additional training and years of experience in health physics, or other disciplines, if appropriate.

<u>Employee</u>	<u>Degrees</u>	<u>Additional training</u>	<u>Experience in Health Physics</u>	<u>Experience in other disciplines</u>
<u>Dennis Klaczynski</u>	<u>Associates degree: Radiologic Technology Certificate: Nuclear Medicine</u>	<u>Attachment A III-11</u>	<u>Limited-as Nuclear Medicine tech</u>	<u>X-Ray and Nuclear Medicine Technologist</u>
<u>Charma Clay</u>	<u>Bachelors: BSc.</u>	<u>Attachment A III-11</u>	<u>Limited-as RSO for lead gauge licensee</u>	<u>Industrial Hygienist & RSO for lead gauge</u>
<u>Shelley Regan</u>	<u>None</u>	<u>None</u>	<u>Limited</u>	<u>Waste water Pre-treatment engineer</u>

11. Please list all professional staff who has not yet met the qualification requirements of license reviewer/materials inspection staff (for NRC, Inspection Manual Chapters 1246; for Agreement States, please describe your qualification requirements for materials license reviewers and inspectors). For each, list the courses or equivalent training/experience they need to attend and a tentative schedule for completion of these requirements.

LISTING OF PROFESSIONAL STAFF NOT MEETING QUALIFICATION OF CHAPTER 1246:

EMPLOYEE	QUALIFICATIONS FOR LICENSE REVIEWER/INSPECTOR	COURSES OR TRAINING NEEDED
DENNIS KLACZYNSKI LICENSE REVIEW & INSP	APPLIED HEALTH PHYSICS; LICENSING, INSPECTION PROC. AND SSD REVIEW, IND. RADIOGRAPHY, TRANSPORTATION,	TRANSPORTATION, SPECIAL TRAINING IN SSD REVIEW FURTHER EXPERIENCE IN INSPECTION PROCEDURES
CHARMA CLAY INSPECTION, LTD.	BASIC RAD SAFETY & HEALTH PHYSICS, INSPECTION PROC., N. MED, TRANSPORTATION, IND. RADIOGRAPHY	INDUSTRIAL RADIOGRAPHY, NUCLEAR MEDICINE, TRANSPORTATION, FURTHER DEVELOPMENT OF INSPECTION SKILLS AS RELATED TO RAD MATERIALS.
SHELLEY REGAN EMERGENCY RESPONSE	BASIC RAD SAFETY & HEALTH PHYSICS, TRANSPORTATION, EMERGENCY RESPONSE	BASIC RADIOLOGICAL HEALTH & HEALTH PHYSICS, TRANSPORTATION, EMERGENCY RESPONSE

12. Please identify the technical staff that left the RCP/Regional DNMS program during this period.

- ◆ Alfred Cabral-11 April 1999
- ◆ John L. Ferruolo-27 February 2000 (Returned to program 11 March 2001 as supervisor)
- ◆ Charles McMahon Supervisor -29 Dec 2000

13. List the vacant positions in each program, the length of time each position has been vacant, and a brief summary of efforts to fill the vacancy.
- ◆ Radiological Health Specialist -involved in materials program- vacant from 27 Feb 2000 to 11-Feb 2001. NOTE: Position was filled 11 Feb 2001, employee had major surgery in Nov 2001 and on sick leave from Nov. 2001 to Feb 2002 (limited duty) to approx. May 2002.
 - ◆ Senior Industrial Hygienist-**duties previously were split between x-ray and materials programs** -vacant from May 99 to date. Position filled with a Radiological Health Specialist, **100 % x-ray program.**
 - ◆ Supervising Radiation Control Specialist-vacant 29 Dec 2000. Position was filled on 11 March 2001-title was changed to: -Supervising Radiological Health Specialist.
 - ◆ The state has made a concerted effort to fill positions and to date four new employees have been hired. However, only one is full time in RAM program. The other new employee hired as a Radiological Health Specialist is 100% x-ray. Our newest hire-9/2002-Industrial Hygienist- is receiving training in basic radiological health and is involved in x-ray and tanning programs. Intention to provide support to RAM program via emergency response and responsibilities for maintaining equipment.
 - ◆ An industrial hygienist position was added to the program on 6 October 2000 initial involvement has been in x-ray and tanning program. Training/enrollment in basic RAM courses initiated in July 2001. Formal courses plus OJT and previous related experiences in industrial hygiene inspections has developed into involvement in limited RAM inspection activities. (Current limitations to portable gauge inspections)

IV. Technical Quality of Licensing Actions

14. Please identify any major, unusual, or complex licenses which were issued, received a major amendment, were terminated, decommissioned, submitted a bankruptcy notification, or renewed in this period. Also identify any new or amended licenses that now require emergency plans.
- ◆ No new/amended licenses requiring emergency plans.
 - ◆ RI Hospital Gamma knife upgrade-major amendment.
 - ◆ RI Hospital-several complex amendments to address IVB, Zevalin & GilaSuite usage.
 - ◆ Syncor renewal, change of ownership and relocation /decommissioning.
 - ◆ Closeout of Todesca license, finalized from 1999.
 - ◆ Involvement in addressing PET issues and amendments/new licenses.
 - ◆ Major efforts to terminate licenses that were out-of-state and basically inactive or problem licenses that had not renewed since 1999 or earlier.
15. Discuss any variances in licensing policies and procedures or exemptions from the regulations granted during the review period. -- **Not applicable**

16. What, if any, changes were made in your written licensing procedures (new procedures, updates, policy memoranda, etc.) during the reporting period?
- ◆ Licensing procedures, for the most part, remain status quo from previous IMPEP.
 - ◆ Changes in license format and amendment issuance policy-a complete license is currently issued for all amendments and renewals. This maintains completeness of the document and facilitates a more complete implementation by the licensee.
 - ◆ Due to changes in licensing program in use by the state, in-house computer databases needed to be generated to account for submittals of new licenses, amendments etc. such licensing actions could be accounted for. In addition, effective January 2002 a mechanism to address reciprocity licensing and generation of a reciprocity license was effected.
17. For NRC Regions, identify by licensee name, license number and type, any renewal applications that have been pending for one year or more. Please indicate why these reviews have been delayed. --Not Applicable

V. Responses to Incidents and Allegations

18. For Agreement States, please provide a list of the reportable incidents (i.e., medical misadministration, overexposures, lost and abandoned sources, incidents requiring 24 hour or less notification, etc. See Handbook on Nuclear Material Event Reporting in Agreement States for additional guidance) that occurred during the review period. Information included in previous submittals to NRC need not be repeated (i.e., those submitted under OMB clearance number 3150-0178, Nuclear Material Events Database). The list should be in the following format:

<u>Licensee Name</u>	<u>License #</u>	<u>Date of Incident/Report</u>	<u>Type of Incident</u>
<u>RI HOSPITAL</u>	<u>7D-051-01</u>	<u>31 Jan 02-from licensee/NMED 26 Feb 02</u>	<u>IVB dosing-error/calculation</u>

19. During this review period, did any incidents occur that involved equipment or source failure or approved operating procedures that were deficient? If so, how and when were other State/NRC licensees who might be affected notified? For States, was timely notification made to NRC? For Regions, was an appropriate and timely PN generated?
- ◆ It is unknown if there were any incidents reported prior to June 2001, records concerning this matter were limited or not retrievable.
 - ◆ Notification through NMED of one incident in 2002 concerning IVB. Incident was not specifically due to equipment or source failure however, it was due to the recording of a vessel diameter instead of radius thus affecting the dose calculation. Procedures and forms have been modified to lessen the probability of future error.
 - ◆ Information Notice 2002-16 dated 1 May 2002 addressed this matter.

- ◆ Follow-up of matter is considered to be a continuous action through phone conversations with licensee RSO. A regular dialogue exist between this licensee and the Agency due to involvement of the RSO with the Advisory commission and also through licensing actions in both materials and x-ray programs.
 - ◆ Yes, it is felt that timely notification was made.
20. For Agreement States, for incidents involving failure of equipment or sources, was information on the incident provided to the agency responsible for evaluation of the device for an assessment of possible generic design deficiency? Please provide details for each case.-**Not Applicable**
21. Identify any changes to your procedures for handling allegations that occurred during the period of this review.
- ◆ Procedures for handling allegations have not changed appreciably. The RCA has a close working relationship with our licensees. Follow-up with the on-site RSO is initiated to maintain updates concerning the licensees handling of the situation. If repetitive or historical instances are observed or if adequate/timely response is not forthcoming an on-site visit would be performed to address this matter. Item would definitely be a focus area during next inspection. Once staffing training has been accomplished a more consistent on-site follow-up will be in effect.

General

22. Please prepare a summary of the status of the State's or Region's actions taken in response to the comments and recommendations following the last review. Describe the results of any program audits completed during the review period.
- ◆ The State' response to the comments and recommendations outlined during the last review were positive in addressing the issues. However, many factors have materialized that have adversely affected some of the positive measures taken to address these issues. Some issues that have had adverse effects on fully realizing our goal are: 1) the implementation of a new Department wide licensing program, 2) losses in staff, 3) untimely back-filling of positions with individuals requiring the basic training foundations considered necessary to implement a licensing and inspection program, 4) illness and a current loss of an employee to maternity leave. These issues have required repeated modification of timelines established to effectively address all of the issues identified during the last review.
 - ◆ With the rebuilding of the program it was anticipated that, once new staff was hired and core training had been secured, that we would be able to be making serious strides to diminish our backlog in both licensing and inspection activities by February 2002. Unfortunately, this has not materialized for a number of reasons as noted above which were further compromised by other changes which required building an infrastructure to address:
 - Newly implemented/mandated annual licensing frequencies;
 - Newly implemented/mandated annual reciprocity licensing;
 - Establishing a new mechanism to address billing and accounting for licensing actions received by the Agency; and
 - Development of an inspection planning mechanism to get the program back on track.This infrastructure is still under construction and requiring continued modification to address new changes.

23. For NRC Regions, briefly describe any recent efforts, or future plans, on your part to: (1) improve the safety performance of licensees operating below acceptable levels for ensuring public health and protection; (2) increase the public confidence in your program; (3) increase your effectiveness, and efficiency, or (4) reduce any unnecessary regulatory burden for your stakeholders.-- **Not Applicable**
24. Provide a brief description of your program's strengths and weaknesses. These strengths and weaknesses should be supported by examples of successes, problems, or difficulties which occurred during this review period.

◆ **STRENGTHS:**

- ◆ A staff that has been supportive and receptive to accommodating change.-at any one time there have been a number of new issues to address, and due to the current staff's lack of experience in the program, addressing some of these issues can be frustrating. We have been able to work through these issues in a positive training environment that has been rewarding.
- ◆ The Agency, for the most part, has a good working relationship with it's licensees.-The IVB incident at RI Hospital and the realization of a more effective mechanism to accommodate the three different devices utilized for this procedure was initiated by the licensee, with continued involvement of the Agency, in a most timely manner.
- ◆ The ability to decrease our licensee population to a more manageable size considering current staffing and experience. Initially, there were just over 70 licensees now with the elimination of many out-of-state licensees or delinquent licensees the Agency currently has 58 active licensees. (with the prospects of further terminations)

◆ **WEAKNESSES:**

- ◆ Loss of staffing in 1999-2000 without timely backfill of positions-responsible for increasing backlogs in both licensing actions and inspections.
- ◆ Inexperience of recently hired staff in licensing and inspection procedures and limited training in radiological health and procedures.-This has had a negative affect on expeditiously addressing our backlog in both licensing and inspection actions for both RAM and x-ray programs. It has necessitated baseline training plus OJT training/mentoring for both programs to be effected by the supervisor of the program. The time spent training individuals in the program activities plus running the programs has had a negative impact on the program that is just beginning to realize some progress in moving forward.
- ◆ Licensing files required attention to standardize maintenance of the information.-Many files were, and some remain, in need of attention to maintaining a proper chronology of licenses and filing of licensing and inspection actions appropriately. In some instances misfiling of information was evident which has made it difficult to follow the actions of a licensee and ensure completeness of the file documentation.
- ◆ The enforcement policy previously in effect incorrectly referenced Agency regulations.-Actions were taken to amend the enforcement policy (1 May 2001) such that it correctly referenced the Agency regulations. This remains a work in progress due to current projected changes in the Agency regulations.

- ◆ The mechanism for issuing license amendments adversely affected the continuity of the licensing action. -A complete license is now issued for all amendments in addition to initial and renewed licenses.
- ◆ The current licensing database is ineffective in automating the licensing process and does not provide for a means to account for inspection activities.-a billing mechanism had to be established in-house and currently is implemented by the supervisor of program. An inspection planning module has also been developed to address core and non-core inspections to account for planning inspection activities in addition to accounting for inspection finding and tracking closure of activities. To date the new L2K Licensing module has not been effective in allowing entries of inspection data such that tracking and planning may be accomplished. Data from the previously utilized program has been accessed to establish a rudimentary baseline from which to build. However with the implementation of the L2K program data entry into this previous data base was suspended and the new licensing program is not yet capable of performing this function.

B. NON-COMMON PERFORMANCE INDICATORS

I. Legislation and Program Elements Required for Compatibility

25. Please list all currently effective legislation that affects the radiation control program (RCP).
- ◆ RI General Law Title 23- Chapter 1.3
26. Are your regulations subject to a "Sunset" or equivalent law? If so, explain and include the next expiration date for your regulations.
- ◆ The regulations are not subject to a "Sunset" or equivalent law but they did require administrative refilling, in electronic MS Word format, with the Secretary of State on 1 January 2001. **NOTE:** Since the Agency regulations were in a Wordperfect format this necessitated a translation into MS Word with additional person-hours to review the document to ensure proper transference of information.
27. Please complete the enclosed table based on NRC chronology of amendments. Identify those that have not been adopted by the State as detailed in the current RATS form, explain why they were not adopted, and discuss any actions being taken to adopt them. Identify the regulations that the State has adopted through legally binding requirements other than regulations.-
- See Attachment (BI-28)**
28. If you have not adopted all amendments within three years from the date of NRC rule promulgation, briefly describe your State's procedures for amending regulations in order to maintain compatibility with the NRC, showing the normal length of time anticipated to complete each step.
- ◆ The procedure involves utilization of applicable NRC regulations in conjunction with the SSR's which results in the generation of regulations formatted per the RI RCA regulations.
 - ◆ Once the regulatory changes have been made in a "Draft Regulations" Document it is presented to our Radiation Advisory Commission for their review and comments.

- ◆ Typically at this stage the "Draft" document is assigned to various sub-committees for further review and modification to produce a "Final" document that goes to public hearing.
- ◆ After the public hearing and comment period the "Final" document is adopted as regulation.

II. Sealed Source and Device Program

29. Prepare a table listing new and revised SS&D registrations of sealed sources and devices issued during the review period. The table heading should be:

<u>SS&D REGISTRY NUMBER</u>	<u>MANUFACTURER, DISTRIBUTOR OR CUSTOM USER</u>	<u>PRODUCT TYPE OR USE</u>	<u>DATE ISSUED</u>	<u>TYPE OF ACTION</u>
RI-164-D-101B	NITON CORP	X-RAY FLUORESCENCE	12/31/1998	AMEND ENTIRETY
RI-164-D-101B	NITON CORP	X-RAY FLUORESCENCE	11/14/2001	AMENDMENT- ADD SOURCE
RI-164-D-102B	NITON CORP	X-RAY FLUORESCENCE	7/31/2000	NEW SHEET- NEW MODEL
RI-164-D-102B	NITON CORP	X-RAY FLUORESCENCE	11/14/2001	AMENDMENT- ADD SOURCE

30. What guides, standards, and procedures are used to evaluate registry applications?

- ◆ NRC, ANSI, NUREG DOCUMENTS and standards

31. Please include information on the following questions in Section A, as they apply to the Sealed Source and Device Program:

- ◆ Currently the program has one licensee that requires an SSD review of their product. Although this could change we do not see the potential for a major influx of licensees requiring SSD reviews.
- ◆ In the past this assignment has been handled by one of the two persons in the RAM program. This would remain in effect under the current program construction utilizing the following individuals as identified in A.III 10.

❖ Technical Staffing and Training

<u>Name</u>	<u>Position</u>	<u>Area of Effort</u>	<u>FTE%</u>
Dennis Klaczynski	Radiological Health Spec.	SSD-AS NEEDED	PART OF LICENSING
Bill Dundulis	Risk Assessment Toxicologist	SSD-AS NEEDED	PART OF LICENSING
Jack Ferruolo	Supervising Radiological Health Specialist	SSD-AS NEEDED	PART OF LICENSING

- ◆ Please refer to responses to items A.III.11-14 for the individuals identified above, as applicable.

❖ Technical Quality of Licensing Actions:

- ◆ Please refer to responses to items A.IV.15-18.

❖ Responses to Incidents and Allegations:

- ◆ Please refer to responses to items A.IV.15-18.

III. Low-Level Waste Program

32. Please include information on the following questions in Section A, as they apply to the Low-level Waste Program:

Status of Materials Inspection Program - A. 1.1-3, A.I.5
Technical Quality of Inspections - A. II.6-9
Technical Staffing and Training - A. III.10-14
Technical Quality of Licensing Actions - A. IV.15-18
Responses to Incidents and Allegations - A.V. 19-22

- ◆ **NOT APPLICABLE**

IV. Uranium Mill Program

33. Please include information on the following questions in Section A, as they apply to the Uranium Mill Program:

Status of Materials Inspection Program - A.I. 1-3, A.I.5
Technical Quality of Inspections - A. II.6-9
Technical Staffing and Training - A. III.10-14

Technical Quality of Licensing Actions - A. IV. 15-18
Responses to Incidents and Allegations - A.V.19-22

- ◆ **NOT APPLICABLE**

Action Plan
Effective Date
-1 January 2001-

❖ **Staffing**

- ❖ Secure backfill of vacated Radiological Health Specialist position for materials program.
- ❖ Expand responsibilities of industrial hygienist working in x-ray program.
- ❖ Secure additional staffing to fill available industrial hygienist position.
- ❖ Evaluate staff's inherent abilities and immediate training needs.

❖ **Training**

- ❖ Secure training is NRC core courses for primary and secondary staff members.
 - ❖ Primary materials person involved in licensing, inspection and emergency response.
 - ❖ Applied Health Physics, licensing and inspection practices, industrial radiography, transportation, emergency response.
 - Anticipate approx. one year training per specialized courses and OJT actions to secure competency in licensing and inspection actions.
 - After Applied Health Physics course, OJT for licensing actions.
 - Intended to develop understanding of regulatory process and Agency regulations plus primer for licensing course.
 - Licensing course, to further develop licensing skills and better understanding of regulatory process.
 - Due to illness of staff Radiological Health Person and projected long term recovery alternative action to expand training of Industrial Hygienist to assume some inspection duties on a limited scale.

❖ Secondary materials person, involved in inspection and emergency response actions.

- Basic Health Physics training secured in addition to attendance at the inspection procedures training.
 - After completion of the inspection training course, accompanied training/mentored inspections of various licensees.
 - Limited inspections non-core . Unassisted licensing actions.
- Additional training needed to expand inspection capabilities:- industrial radiography, transportation, and emergency response.

❖ Update staff computer skills as needed.

❖ **Licensing actions:**

- ❖ Identify problem areas needing immediate attention.
 - ❖ License renewals that were overdue.
 - ❖ Address expiring Licensees and timely renewals that had not been issued.
- ❖ Assess status and immediate resources available to the program.
 - ❖ Develop mechanism to address licensing issues that are:
 - ❖ Expiring or have expired
 - ❖ Investigate long overdue renewals-attention to termination
 - ❖ New licensing actions requiring immediate attention.
- ❖ Develop infrastructure to address:
 - ❖ Database to account for submittals of licenses, amendments etc.
 - ❖ Develop mechanism to conduct annual billing for RAM licenses.
 - ❖ Develop mechanism and forms to account for annual reciprocity licensing.

❖ **Inspection Actions:**

- ❖ Develop mechanism to assess status of inspection actions to date.
- ❖ Retrieve any inspection information from old database, establish new mechanism to account for overdue inspections and establish schedule.
- ❖ Establish database to assist with inspection planning.
- ❖ Attention to termination of overdue licensees to decrease inspection liability.
- ❖ Establish interim mechanism to address emergency inspection needs.
 - ❖ Prioritize response activities to address problem licenses.
 - ❖ Prioritize response to incidents involving RAM improperly disposed of.
 - ❖ Use inspection of non-core licenses as building block for OJT inspection training.
 - ❖ Expand medical/academic inspection process into core inspections level 3 and progress on to level 1 broadscope.
 - ❖ Expand gauge inspection process into core inspections (level 1) radiography.

TABLE AI-1

OVERDUE INSPECTIONS

print date 10/15/02

LICENSE #	LICENSEE	NRC LICENSE TYPE	NRC INSP FREQ	LAST INSP	INSP DUE	EXTEND DATE	INSP DONE	MONTHS OVERDUE
7D-051-01	RHODE ISLAND HOSPITAL	02110 Med. Institution Broad	1	23-Jun-1998	23-Jun-1999	23-Jun-2000		28
7D-045-02	WOMEN & INFANTS HOSPITAL OF RHODE ISLAND	02110 Med. Institution Broad	1	05-May-1999	04-May-2000	04-May-2001		18
7D-026-01	ROGER WILLIAMS HOSPITAL	02110 Med. Institution Broad	1	15-Sep-1998	15-Sep-1999	01-Oct-1999		37
7B-053-02	PHILIP G. MADDOCK, MD	02230 High-Med-Pulsed Dose Afterload	1	No Record as of 6/19/02. insp due 3/25/99-done 3/27/99. Record regenerated	25-Mar-1999	25-Mar-2001		19
7A-051-02	RHODE ISLAND HOSPITAL	02310 Stereotactic Radiosurgery	1	16-Jun-1997	16-Jun-1998	16-Jun-2002	06-May-2002	
3D-117-01	OCEAN STATE TECHNICAL SERVICES	03320 Indust. Radiography Temp Jobsite	1	18-Jan-2000	17-Jan-2001	17-Jan-2002		9
3D-095-01	OCEAN STATE TESTING, INC.	03320 Indust. Radiography Temp Jobsite	1	30-Apr-1998	30-Apr-1999	30-Apr-2000	19-Jul-2002	30
3D-083-02	BRIGGS ENGINEERING & TESTING	03320 Indust. Radiography Temp Jobsite	1	23-Dec-1997	23-Dec-1998	23-Dec-1999		34

TABLE AI-1

OVERDUE INSPECTIONS

print date 10/15/02

LICENSE #	LICENSEE	NRC LICENSE TYPE	NRC INSP FREQ	LAST INSP	INSP DUE	EXTEND DATE	INSP DONE	MONTHS OVERDUE
3D-065-01	THIELSCH ENGINEERING, INC.	03320 Indust. Radiography Temp Jobsite	1	02-Apr-1998	02-Apr-1999	02-Apr-1999		43
3D-064-01	SUPPLY SALES CO. (ANVIL)	03320 Indust. Radiography Temp Jobsite	1	26-Aug-1997	26-Aug-1998	26-Aug-1999		38
3D-005-01	ELECTRIC BOAT CORPORATION	03320 Indust. Radiography Temp Jobsite	1	22-May-1997	22-May-1998	22-May-1999		41
3B-114-01	SYNCOR INTERNATIONAL CORP	02500 Nuclear Pharmacies	1	01-Jul-1998	01-Jul-1999	01-Jul-2000		28
3K-063-01	RI NUCLEAR SCIENCE CENTER	01100 Academic Type A Broad	2	30-Jan-1998	30-Jan-2000	30-Jan-2001		21
3K-040-01	UNIV. OF RHODE ISLAND	01100 Academic Type A Broad	2	04-Feb-1998	04-Feb-2000	04-Feb-2001		21
3K-036-01	BROWN UNIVERSITY	01100 Academic Type A Broad	2	27-Jan-1999	26-Jan-2001	26-Jan-2001		21
7B-127-01	BLACKSTONE CARDIOLOGY	02200 Med. Private Prac. QMP Req.	3	Never	1-Jun-02	01-May-2002	17-Jul-2002	4
7B-125-01	CARDIOVASCULAR ASSOCIATES OF RHODE ISLAND	02200 Med. Private Prac. QMP Req.	3	Never	20-Jan-01		14-Jan-2002	18

TABLE AI-1

OVERDUE INSPECTIONS

print date 10/15/02

LICENSE #	LICENSEE	NRC LICENSE TYPE	NRC INSP FREQ	LAST INSP	INSP DUE	EXTEND DATE	INSP DONE	MONTHS OVERDUE
7B-020-01	KENT COUNTY MEMORIAL HOSPITAL	02120 Med. Institution - QMP Req.	3	31-Jul-1996	31-Jul-1999	31-Jul-2000		27
7B-019-01	LANDMARK MEDICAL CENTER	02120 Med. Institution - QMP Req.	3	13-Apr-1998	12-Apr-2001	12-Apr-1999		43
3A-105-01	NITON CORPORATION	03214 Manufact. Distrib. Other	3	08-Mar-1995	07-Mar-1998	07-Mar-1998	02-Jul-2002	52
8A-009-02	RI EMERGENCY MANAGEMENT AGENCY	03710 Civil Defense	5	14-Aug-1990	13-Aug-1995	13-Aug-1995		87
8A-009-01	RI EMERGENCY MANAGEMENT AGENCY	03710 Civil Defense	5	14-Aug-1990	13-Aug-1995	13-Aug-1997		63
7C-073-01	RICHARD P. SANANTONIO, M.D.	02201 Med. Private Prac. - no QMP Req.	5	11-Aug-1992	10-Aug-1997	10-Aug-1999	11-Sep-2002	38

TABLE AI-1

OVERDUE INSPECTIONS

print date 10/15/02

LICENSE #	LICENSEE	NRC LICENSE TYPE	NRC INSP FREQ	LAST INSP	INSP DUE	EXTEND DATE	INSP DONE	MONTHS OVERDUE
7B-109-01	NAVIX DIAGNOSTIX , INC.	02201 Med. Private Prac. - no QMP Req.	5	04-May-1994	03-May-1999	03-May-2001		18
7B-091-01	FORTUNATO , M.D., BRANNON, MD & TILKEMEIER , MD	02201 Med. Private Prac. - no QMP Req.	5	30-Mar-1992	29-Mar-1997	29-Mar-1999		43
3L-119-01	JAWORSKI *** GEOTECH, INC.	03121 Meas Sys Port Gauge inc Lixiscop	5	28-Nov-1995	11-Oct-1996	28-Nov-2002	11-Sep-2002	-1
3L-116-01	NARRAGAN SETT INDIAN TRIBE	03121 Meas Sys Port Gauge inc Lixiscop	5	NEVER	3-Jan-1996		25-Feb-2002	1251
3L-096-01	PROFESSION AL SERVICE INDUSTRIES INC.	03121 Meas Sys Port Gauge inc Lixiscop	5	06-Apr-1993	05-Apr-1998	05-Apr-1998		55
3L-070-01	J. H. LYNCH & SONS	03121 Meas Sys Port Gauge inc Lixiscop	5	17-Feb-1992	15-Feb-1997	15-Feb-1999		45

TABLE AI-1 OVERDUE INSPECTIONS print date 10/15/02

LICENSE #	LICENSEE	NRC LICENSE TYPE	NRC INSP FREQ	LAST INSP	INSP DUE	EXTEND DATE	INSP DONE	MONTHS OVERDUE
3L-055-01	OSRAM SYLVANIA PRODUCTS, INC.	03120 Measuring System Fixed Gauges	5	15-Jun-1989	14-Jun-1994	14-Jun-1996		77
3L-015-01	RI DEPT OF TRANSPORTATION	03121 Meas Sys Port Gauge in Lixiscop	5	05-Jul-1994	04-Jul-1999	04-Jul-2001	25-Feb-2002	16
3K-128-01	PAN PACIFIC PHARMACEUTICALS	03620 Research/Development Other	5(6mo) initial	Never	01-Jul-2002	01-Jul-2002	7/16/02 PHONE	4
3K-123-01	PROVIDENCE COLLEGE	03620 Research/Development Other	5	Never	05-Sep-1999	01-Sep-1999	18-Apr-2002	38
3K-023-01	RI PSYCHIATRIC RESEARCH	03620 Research/Development Other	5	09-Jan-1991	08-Jan-1996	08-Jan-1998		58
3G-105-02	NITON CORPORATION	03240 General Lic. Distribute C.S.5(d)	5	15-Apr-1997	14-Apr-2002	14-Apr-2001	02-Jul-2002	18
3E-100-01	RHODE ISLAND BLOOD CENTER	03510 Irrad. Self-Shield < 370 TBq	5	14-Apr-1994	13-Apr-1999	13-Apr-2001		18
3L-062-01	BRISTOL METAL CO, INC.	03122 Meas. Syst. Analytical Instrument	7	20-Jan-1987	18-Jan-1994	18-Jan-1994		106

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TABLE AI-1

OVERDUE INSPECTIONS

print date 10/15/02

LICENSE #	LICENSEE	NRC LICENSE TYPE	NRC INSP FREQ	LAST INSP	INSP DUE	EXTEND DATE	INSP DONE	MONTHS OVERDUE
3L-057-01	RI DEPT OF HEALTH LABORATORY	03124 Measuring Systems -Other	7	04-Jun-1991	02-Jun-1998	02-Jun-1998		53

NOTES: ***Jaworski initial insp in 95 as part of reciprocity visit
no items identified.

**STRIKETHROUGH= -INSPECTION WAS > 25% OVERDUE WHEN DONE NOT
CONSIDERED OVERDUE ON DATE TABLE PRINTED.**

3L-062-01 storage only subject to disposal licensee had not renewed license to date.

Final 10/16/02

ATTACHMENT A III-11: TRAINING COURSES COMPLETED printed 10/15/02

DENNIS KLACZYNSKI

DATES OF COURSE COURSE TITLE

March 5-April 6, 2001 Applied Health Physics Course (H-109)
Sept.10-14, 2001 Licensing Practices and Procedures Course (G-109)
March 4-8, 2002 Inspection Procedures Course (G-108)
April 7-12, 2002 Safety Aspects of Industrial Radiography Course (H-305)

CHARMA CLAY

DATES OF COURSE COURSE TITLE

July 16-20, 2001 Introductory Health Physics - H117
August 3, 2001 Basic Radiation Safety-AEC-Nuclear Sci Ctr
March 4 - 8, 2002 Inspection Procedures - G108
August 19-29 2002 Diagnostic Xray Survey Training Course

ATTACHMENT (B-I 28)		TABLE FOR QUESTION 28		printed 10/15/02
10 CFR RULE	DATE DUE	DATE ADOPTED	OR	EXPECTED ADOPTION
		OR EFFECTIVE	CURRENT STATUS	
Any amendment due prior to 1993 Identify each regulation (refer to the Chronology of Amendments)	N/A	N/A	No amendments in this category.	N/A
Emergency Planning; Parts 30, 40, 70	4/7/93	Prior to 1998 IMPEP		
Standards for Protection Against Radiation; Part 20	1/1/94	Prior to 1998 IMPEP		
Safety Requirements for Radiographic Equipment; Part 34	1/10/94	Prior to 1998 IMPEP		
Notification of Incidents; Parts 20, 30, 31, 34, 39, 40, 70	10/15/94	Prior to 1998 IMPEP		
Quality Management Program and Misadministrations; Part 35	1/27/95	Prior to 1998 IMPEP		
Licensing and Radiation Safety Requirements for Irradiators; Part 36	7/1/96	N/A	Regulations not adopted - No applicable licenses.	N/A
Definition of Land Disposal and Waste Site QA Program; Part 61	7/22/96	N/A	Regulations not adopted - No applicable licenses.	N/A

ATTACHMENT (B-I 28)		TABLE FOR QUESTION 28		printed 10/15/02	
10 CFR RULE	DATE DUE	DATE ADOPTED OR EFFECTIVE	OR		
			CURRENT STATUS	EXPECTED ADOPTION	
Decommissioning Recordkeeping: Documentation Additions; Parts 30, 40, 70	10/25/96	Prior to 1998 IMPEP			
Uranium Mill Tailings: Conforming to EPA Standards; Part 40	7/1/97	N/A	Regulations not adopted - No applicable licenses.	N/A	
Timeliness in Decommissioning Parts 30, 40, 70	8/15/97	June 1999			
Preparation, Transfer for Commercial Distribution, and Use of Byproduct Material for Medical Use; Parts 30, 32, 35	1/1/98	June 1999			
Frequency of Medical Examinations for Use of Respiratory Protection Equipment	3/13/98	June 1999			
Low-Level Waste Shipment Manifest Information and Reporting	3/1/98	June 1999			
Performance Requirements for Radiography Equipment	6/30/98	June 1999			
Radiation Protection Requirements: Amended Definitions and Criteria	8/14/98	June 1999			
Medical Administration of Radiation and Radioactive Materials.	10/20/98	June 1999			
Clarification of Decommissioning Funding Requirements	11/24/98	June 1999			

ATTACHMENT (B-I 28)		TABLE FOR QUESTION 28		printed 10/15/02
10 CFR RULE	DATE DUE	DATE ADOPTED OR EFFECTIVE	OR	
			CURRENT STATUS	EXPECTED ADOPTION
10 CFR Part 71: Compatibility with the International Atomic Energy Agency	4/1/99		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 1997-1	1 st quarter of CY2003
Termination or Transfer of Licensed Activities: Recordkeeping Requirements.	6/16/99	June 1999		
Resolution of Dual Regulation of Airborne Effluents of Radioactive Materials; Clean Air Act	1/9/00		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 1997-1	1 st quarter of CY2003
Recognition of Agreement State Licenses in Areas Under Exclusive Federal Jurisdiction Within an Agreement State	2/2700		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 1997-2	1 st quarter of CY2003
Criteria for the Release of Individuals Administered Radioactive Material	5/29000	June 1999		
Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiography Operations; Final Rule	6/27000	June 1999		
Radiological Criteria for License Termination	8/20/00		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 1997-6	1 st quarter of CY2003
Exempt Distribution of a Radioactive Drug Containing 1 μ Ci of Carbon-14 Urea	1/2/01	June 1999		
Deliberate Misconduct by Unlicensed Persons	2/12/01		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 1997-1	1 st quarter of CY2003
Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations; Clarifying Amendments and Corrections	7/9/01	June 1999		

ATTACHMENT (B-I 28)		TABLE FOR QUESTION 28		printed 10/15/02
10 CFR RULE	DATE DUE	DATE ADOPTED OR EFFECTIVE	OR CURRENT STATUS	EXPECTED ADOPTION
Transfer for Disposal and Manifest; Minor Technical Conforming Amendments	11/20/01	June 1999		
Radiological Criteria for License Termination of Uranium Recovery Facilities	6/11/02	N/A	Regulations not adopted - No applicable licenses	N/A
Respiratory Protection and Controls to Restrict Internal Exposures	2/21/03		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 1997-3	1 st quarter of CY2003
Energy Compensation Sources for Well Logging and Other Regulatory Clarifications	5/17/03		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 2000-1	1 st quarter of CY2003
New Dosimetry Technology	1/8/04		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 2000-2	1 st quarter of CY2003
New 10 CFR 20.53 GL Reporting Requirements	8/16/01 & 2/16/04		8/16/01 requirements adopted on interim basis via license conditions. Rule is currently under review by subcommittee of our Radiation Advisory Commission-RATS 2001-1	1 st quarter of CY2003
10 CFR 20 -Revision of Skin Dose	4/5/05		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 2002-1	1 st quarter of CY2003
10 CFR 20,32 and 35- Medical Use of Byproduct Material	4/24/05		Currently under review by subcommittee of our Radiation Advisory Commission-RATS 2002-2	