

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM

QUESTIONNAIRE

State of South Carolina

Reporting Period: June 14, 2003, to July 20, 2007

Note: If there has been no change in the response to a specific question since the last IMPEP questionnaire, the State or Region may copy the previous answer if appropriate.

A. COMMON PERFORMANCE INDICATORS

I. Technical Staffing and Training

1. Please provide the following organization charts, including names and positions:

- (a) A chart showing positions from Governor down to Radiation Control Program Director;
- (b) A chart showing positions of current radiation control program including management; and
- (c) Equivalent charts for sealed source and device, low level radioactive waste and uranium recovery programs, if applicable

Please see Attachment I.

2. 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 & 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:

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-5 F52), 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.

<u>Name</u>	<u>Position</u>	<u>Area of Effort</u>	<u>FTE%</u>	
Michael Moore	Sec. Mgr.	Infect and Rad Waste Mgmt	50	
Jessie Stephens	Env. Eng.	LLW, NESHAP, Lic & Comp	100	
Mark Yeager	HP	LLW, Lic, Comp, & Trans	100	
Michael Plemmons	HP	LLW, Lic, Comp, & Trans	100	
Mike Gandy	HP	LLW, Lic, Comp, & Trans	100	
Kevin Strickland	HP	LLW, Lic, Comp, & Trans	100	
Arlene Wilkes	Prog. Asst.	Admin, Trans Permits	75	
Kim Clyburn	Prog. Asst.	Admin, Trans Permits	75	

3. 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.

Michael Moore

Mr. Moore was hired by the South Carolina Department of Health and Environmental Control (DHEC) Radioactive Waste Program in April 2005. Prior to his current position, Mr. Moore worked in DHEC's Aiken Regional office performing oversight monitoring of the Savannah River Site and in DHEC's Nuclear Emergency Response Section as an Environmental Health Manager. Mr. Moore is a Certified Public Manager who received a Bachelors of Science from Clemson University in 1994 and a Master's of Science in Public Health from the University of South Carolina in 1996. Since 1996, Mr. Moore has attended numerous training courses in radiation protection, health physics and emergency response.

4. Please list all professional staff who have not yet met the qualification requirements of license reviewer/materials inspection staff (for NRC, Inspection Manual Chapter (IMC) 1246; for Agreement States, please enclose a copy of your qualification and training procedure. If you do not have a written procedure please describe your qualifications 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.

Procedures and requirements for professional staff are outlined in our SOPs. These requirements are compatible with NRC's expectations of staff serving in an Agreement State Program.

5. Please identify the technical staff who left the Agreement State/Regional DNMS program during this period.

*Henry Porter, Asst. Director, Division of Waste Management
Rodney Wingard, Sec. Mgr., Radioactive Waste Management
Susan Jenkins, Env. Eng., Radioactive Waste Management
Virgil Autry, Consultant, Radioactive Waste Management*

6. 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.

None

7. Does the Agreement State program have an oversight board or committee which provides direction to the program and is composed of licensees and other members of the public? If so, please describe the procedures used to avoid a conflict of interest.

The Technical Advisory Radiation Control Council (TARCC) serves in this capacity. None of the current TARCC members are involved in any facility regulated by the Radioactive Waste Program.

II. Status of Materials Inspection Program

8. Please identify individual licensees or categories of licensees the State/Region is inspecting more or less frequently than called for in IMC 2800 and state the reason for the difference.

None

9. Please provide for the review period, the number of Priority 1, 2, and 3 inspections as identified in IMC 2800 that were completed and the number of initial inspections that were completed.

Please see Attachment II.

10. Please submit a table, or a computer printout, that identifies inspections of Priority 1, 2, and 3 licensees, and initial inspections that are presently overdue or which were conducted at intervals that exceed the IMC 2800 frequencies over the course of the entire review period. (See STP Procedure SA-101, *Reviewing the Common Performance Indicator, Status of Materials Inspection Program*, for detailed guidance in preparing this information).

At a minimum, the list should include the following information for each inspection that is overdue or conducted overdue during the review period:

- (1) Licensee Name
- (2) License Number
- (3) Priority
- (4) Last inspection date or license issued date if initial inspection
- (5) Date Due
- (6) Date Performed
- (7) Amount of Time Overdue
- (8) Date inspection findings issued

Please see Attachment II.

11. If you have any overdue inspections, do you have an action plan for completing them? If so, please describe the plan or provide a written copy with your response to this questionnaire.

N/A

12. Please provide the number of reciprocity licensees that were candidates for inspection per year as described in NRC IMC 1220 and the number of candidate reciprocity inspections that were completed each year during the review period.

N/A

III. Technical Quality of Inspections

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

Minor changes to reflect the Section's name change and the addition of the increase procedures were made. Procedures that have been updated will be found on the Bureaus' internal network and will be made available during the program review.

14. 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 Category</u>	<u>Date</u>
Jesse Stephens	Henry Porter/Michael Moore	5(a)	all inspections
Michael Plemmons	Michael Moore	5(f)I	Aug. 24, 2005
Jesse Stephens	Michael Moore	5(c)ii	Feb. 12, 2007

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

Procedures are outlined in our SOPs.

16. Describe or provide an update on your instrumentation, methods of calibration and laboratory capabilities. Are all instruments properly calibrated at the present time? Were there sufficient calibrated instruments available through the review period?

Eberline Model E-600 (8), Eberline SHP-380AB (3), Eberline SSPA-3 (2), Eberline SHP-270 (6), Eberline SHP-360 (6), Eberline SNRD, Eberline SHP-210T, Eberline RO-20 (2), Eberline RO-2 (3), Eberline E-520 (4), Eberline ASP-1, Eberline ESP-1, Eberline HandEcount (2), Eberline Radiation Alert Monitor (3), Ludlum Model 14C (5), Ludlum Model 19, Bicron 2000 (2), Bicron MicroR, Canberra Dineutron (2), and Panasonic Pocket Dosimeter (4).

Calibrations for instrumentation are provided by State operated facility licensed by the Bureau of Radiological Health and/or Thermo-Fischer. Instruments are calibrated on an interval not to exceed twelve months with a sufficient number maintained calibrated through the review period.

IV. Technical Quality of Licensing Actions

17. How many specific radioactive material licenses does the Program regulate at this time?

15

18. 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.

License 097 (Chem-Nuclear Systems) was renewed in March 2004 and appealed by the Sierra Club to the Administrative Law Court (ALC). The ALC ruled in the Department's favor staying the license renewal. The Sierra Club then appealed the ALC decision. The SC Supreme Court will hear the case next to determine whether the Court of Appeals or the Department Board will hear the case next. Since the license renewal was deemed timely filed, the expired license remains in effect until a final decision is reached.

19. Discuss any variances in licensing policies and procedures or exemptions from the regulations granted during the review period.

Periodically, Chem-Nuclear Systems is granted variances for the disposal of wastes not specifically allowed under their license. These variances are reviewed and documented through correspondence between the State and Licensee. Attachment III is a letter to Ms. Janet R. Schlueter, of the NRC, detailing the variances granted to Chem-Nuclear Systems during the past 8 years.

20. What, if any, changes were made in your written licensing procedures (new procedures, updates, policy memoranda, etc.) during the reporting period?

The following changes were made in the State's written licensing procedures: incorporation of two (2) NRC requirements for consistency in the screening and formal review of license applications; official signature will be provided by the Section Manager; radioactive material licenses are amended in their entirety if a change in one or more of the items or conditions of a license is warranted; compliance and enforcement actions are referred to the Division of Compliance and Enforcement; function of Radioactive Waste Management was expanded. The Appendices were also revised and/or updated.

21. 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.

N/A

V. Responses to Incidents and Allegations

22. For Agreement States, please provide a list of any reportable incidents not previously submitted to NRC (See STP Procedure SA-300, Reporting Material Events for additional guidance, OMB clearance number 3150-0178). 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>
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There have been no reportable incidents during the reporting period for our licensees.

We have had several transportation related violations with shipments arriving at Chem-Nuclear and the Savannah River Site.

We have also responded to incidents involving the receipt of radioactive material at unlicensed facilities including scrap metal dealers and landfills. In all cases, we have ensured that the material was returned to the generator or properly disposed.

23. 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? For Agreement States, 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.

N/A

24. Identify any changes to your procedures for handling allegations that occurred during the period of this review.

Management of allegations and confidential sources will be performed in accordance with the Department's Confidential Sources and Allegation Management Publication Procedure.

VI. General

25. 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. Provide the results of any program audits (including self audits) completed during the review period.

The review team made no recommendations.

26. Provide a brief description of your program's strengths and weaknesses. These strengths and weaknesses should be supported by examples of successes, new initiatives, problems or difficulties which occurred during this review period.

Strengths within the program are the highly qualified, experienced and dedicated staff who take great pride in self accomplishments. The turnover rate is low in comparison to other agency programs, which lends itself to excellent program continuity. The program continues to receive positive recognition for its efforts in providing technical assistance to organizations within and outside of the Agency. We continue to upgrade our equipment with the addition of E-600s, portable smear counter, and a portable germanium detector. Weaknesses within the program are primarily attributed to budget constraints throughout the Agency, which limits training opportunities.

B. NON-COMMON PERFORMANCE INDICATORS

I. Legislation and Program Elements Required for Compatibility

27. Please list all currently effective legislation that affects the radiation control program.
- A. *Section 13-7-10 thru 100 of the 1976 Code of Laws, The Atomic Energy and Radiation Control Act.*
 - B. *Section 13-7-110 thru 200 of the 1976 Code of Laws, Radioactive Waste Transportation and Disposal Act.*
 - C. *Section 48-2-10 of the 1976 Code of Laws, Environmental Fees.*
 - D. *Section 48-48-140 of the 1976 Code of Laws, Waste Tax and Repeal of the Southeastern Compact.*
28. Are your regulations subject to a "Sunset" or equivalent law? If so, explain and include the next expiration date for your regulations.
- No
29. Please review and verify that the information in the enclosed State Regulation Status sheet is correct. For those regulations that have not been adopted by the State, explain why they were not adopted, and discuss actions being taken to adopt them.
- If legally binding requirements were used in lieu of regulations, please describe their use.
- N/A
30. 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.

N/A

II. Sealed Source and Device Program

31. Prepare a table listing new and amended (including transfers to inactive status) 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>
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N/A

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

N/A

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

Technical Staffing and Training - Questions 1-7

Technical Quality of Licensing Actions - Questions 17-21

Responses to Incidents and Allegations - Questions 22-24

N/A

III. Low-Level Radioactive Waste Disposal Program

34. Please include information on the following questions in Section A, as they apply to the Low-Level Radioactive Waste Disposal Program:

Technical Staffing and Training - Questions 1-7

Status of Materials Inspection Program - Questions 8-11

Technical Quality of Inspections - Questions 13-16

Technical Quality of Licensing Actions - Questions 17-21

Responses to Incidents and Allegations - Questions 22-24

See responses above.

IV. Uranium Recovery Program

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

Technical Staffing and Training - Questions 1-7

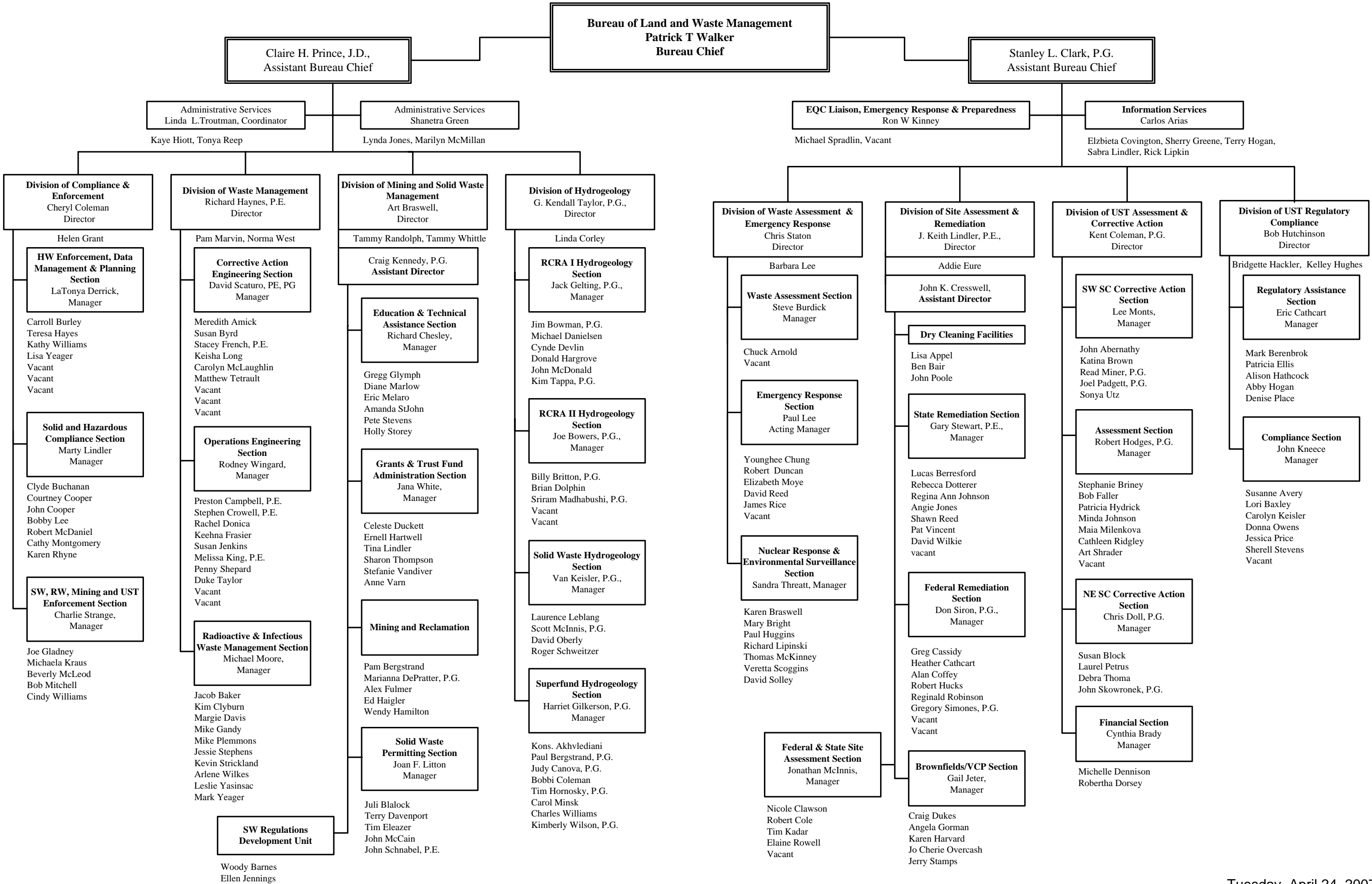
Status of Materials Inspection Program - Questions 8-11

Technical Quality of Inspections - Questions 13-16

Technical Quality of Licensing Actions - Questions 17-21

Responses to Incidents and Allegations - Questions 22-24

N/A



Attachment II

Licensee Name	Facility Name	License #	Facility Address	City	State	Zip Code	County
RWE Nukem Corporation	Columbia Maintenance Facility	0409-00	1700 Longwood Drive	Columbia	SC	29209	Richland
Carolinas-Virginia Nuclear Power Assoc. Inc.	Parr Reactor	0035-00	PO Box 1474	Jenkinsville	SC	29065	Fairfield
Chem-Nuclear Systems, LLC	Barnwell Low Level Waste Facility	0097-00	740 Osborn Road	Barnwell	SC	29812	Barnwell
Chem-Nuclear Systems, LLC	Waste Testing/Calibration Laboratory	0287-01	740 Osborn Road	Barnwell	SC	29812	Barnwell
Chem-Nuclear Systems, LLC	Nuclear Services Support Facility	0287-02	740 Osborn Road	Barnwell	SC	29812	Barnwell
Chem-Nuclear Systems, LLC	Environmental & Dosimetry Lab	0287-03	740 Osborn Road	Barnwell	SC	29812	Barnwell
Chem-Nuclear Systems, LLC	Subsidiary of Chemical Waste Mgmt., Inc.	0287-05	140 Stoneridge Drive	Columbia	SC	29210	Richland
Chem-Nuclear Systems, LLC	Barnwell Processing Facility	0287-04	South Carolina Highway 64	Barnwell	SC	29812	Barnwell
Clemson University - TERMINATED/TRANSFERRED	Clemson Environmental Technologies Lab	0482-00	100 Technology Drive	Anderson	SC	29625	Anderson
J.M. Huber Corporation - TERMINATED	Engineered Minerals Division	0301-00	PO Box 528	Wrens	GA	30833	Aiken
South Carolina Electric & Gas	Old Steam Generator Recycle Facility	0517-00	PO Box 88	Jenkinsville	SC	29065	Fairfield
TransNuclear, Inc.	Aiken Operations	0377-00	310 Woodward Drive	Aiken	SC	29803	Aiken
WRS, Inc.- TERMINATED/TRANSFERRED	Starmet Facility	0755-00	365 Metal Drive, Highway 80	Barnwell	SC	29812	Barnwell
SCDHEC	RWM	001-02	2600 Bull Street	Columbia	SC	29210	Richland
MOTA Corporation		801-00	3410 Sunset Boulevard	W. Columbia	SC	29169	Richland
TD*X Technical Center, LLC		843-00	690 Pumpkintown Road	Marietta	SC	29661	Greenville
Gilbert Summit Rural Water District		837-00	PO Box 172 136 Hampton Str	Gilbert	SC	29054	Lexington
MACTEC Development Corporation		841-00	365 Metal Drive, Highway 80	Barnwell	SC	29812	Barnwell

Attachment II

Licensee Name	Contact	Telephone #	License Cat	Licensed	Expiration	Last Inspection	Inspection Date	Inspection Priority
RWE Nukem Corporation	James Winburn	(803)-776-9714	5(e)	07-Jul-87	31-May-08	16-Dec-05	16-Dec-07	3/2yr
Carolinas-Virginia Nuclear Power Assoc. Inc.	Claude Laney	(803)-932-7811	5(f)I	16-Dec-71	31-Dec-09	28-Aug-06	28-Aug-07	2/1yr
Chem-Nuclear Systems, LLC	Jimmy Still	(803)-259-1781	5(a)	30-Sep-71	15-Mar-09	25-Jan-07	25-Jul-07	1/6mt
Chem-Nuclear Systems, LLC	Jimmy Still	(803)-259-1781	5(s)	04-Dec-79	31-Jan-10	22-Nov-05	22-Nov-07	3/2yr
Chem-Nuclear Systems, LLC	Jimmy Still	(803)-259-1781	5(d)	12-Mar-80	30-Apr-10	22-Nov-05	22-Nov-06	2/1yr
Chem-Nuclear Systems, LLC	Jimmy Still	(803)-259-1781	5(s)	04-Aug-80	30-Sep-10	16-Aug-05	16-Aug-07	3/2yr
Chem-Nuclear Systems, LLC	Jimmy Still	(803)-541-5011	5(e)	23-Oct-89	31-Jan-10	22-Nov-05	22-Nov-07	3/2yr
Chem-Nuclear Systems, LLC	Andrew Veronee	(803)-259-1119	5(c)ii	10-Dec-85	31-Dec-10	12-Feb-07	12-Feb-08	2/1yr
Clemson University - TERMINATED/TRANSFERRED	Jess L. Addis	(864)-656-7165	5(e)	17-Mar-92		12-Oct-06		2/1yr
J.M. Huber Corporation - TERMINATED	Janice Dowdy	(706)-547-2551	5(g)	21-Aug-80		30-Jun-05		3/2yr
South Carolina Electric & Gas	Charles McKinney	(803)-345-4723	5(e)	06-Sep-94	31-Jan-10	15-Jan-04	15-Jan-06	3/2yr
TransNuclear, Inc.	James S. Kirkland	(803)-649-3511	5(e)	11-Jul-85	31-Aug-10	04-Jan-06	04-Jan-08	3/2yr
WRS, Inc.- TERMINATED/TRANSFERRED	Kevin Overby	(803)259-7126	5(e)	19-Sep-02	30-Sep-07	27-Feb-04		3/2yr
SCDHEC	Michael Moore	(803)896-4240			12-Nov-08	12-Nov-03	12-Nov-06	
MOTA Corporation	Wayne C. Gaul	(803)926-0740	5(e)	04-Apr-05	01-Apr-10		01-Oct-05	3/2yr
TD*X Technical Center, LLC	Carl R. Palmer	(864)	5(e)	23-Feb-07	31-Dec-12		23-Aug-07	3/2yr
Gilbert Summit Rural Water District	Claude Laney	(803)940-0401	5(e)	31-Jul-06	15-Aug-11	02-Apr-07	02-Oct-07	3/2yr
MACTEC Development Corporation	Kevin Overby	(803)259-7126	5(e)	27-Aug-06	31-Aug-11		27-Aug-07	3/2yr

January 19, 2006

Attachment III

Ms. Janet R. Schlueter, Director
Office of State and Tribal Programs
U.S. Nuclear Regulatory Committee
Mail Stop O-3-C10
Washington, DC 20555-0001

Dear Ms. Schlueter:

This letter is in response to your request for information pertaining to the disposal of greater than class C waste at the Barnwell LLW facility. A thorough search of our files from 2001 to present resulted in the following table.

SUBMITTAL DATE	GENERATOR	RADIONUCLIDES	ACTIVITY CONCENTRATION or TOTAL ACTIVITY	SCDHEC APPROVAL
Oct. 17, 2000	Duke Power Company, Oconee Nuclear Station	Nickel 63	9.14E3 μ Ci/cc	Jan. 9, 2001
Jan 24, 2002	Consumers Energy, Big Rock Point Nuclear Plant	Carbon 14 Niobium 94 Nickel 63	3.13E2 μ Ci/cc 2.43 μ Ci/cc 2.26E5 μ Ci/cc	Feb 12, 2002
Feb. 7, 2003	University of Massachusetts	Americium 241	50 mCi	Mar 13, 2003
July 28, 2003	NASA Plum Brook	Nickel 63 (Table I) Carbon 14 (Table II) Nickel 59 (Table II) Niobium 94 (Table II)	1.03E4 μ Ci/cc 1.34E1 μ Ci/cc 1.11E2 μ Ci/cc 7.81 E-2 μ Ci/cc	Aug. 12, 2003
Oct. 19, 2004	Entergy Nuclear, Indian Point 2	α emitting transuranics with half-life > than 5 years	3.23E2 nCi/gm	Nov. 22, 2004

Waste activities describe in each of the five requests would have exceeded Class C waste even if concentration averaging was applied.

If you have any questions, feel free to contact me at 803-896-4245.

Sincerely,

Henry Porter, Assistant Director
Division of Hazardous Waste Management
Bureau of Land and Waste Management

C:/MyDocuments/2006/NRC GTCC Info Request