

April 28, 2006

Donald E. Williamson, M.D.  
State Health Officer  
Alabama Department of Public Health  
P.O. Box 303017  
Montgomery, AL 36130-3017

Dear Dr. Williamson:

The Nuclear Regulatory Commission (NRC) uses the Integrated Materials Performance Evaluation Program (IMPEP) in the evaluation of Agreement State programs. Enclosed for your review is the draft IMPEP report, which documents the results of the Agreement State review held in Alabama on April 3-7, 2006. I was the team leader for the review. The review team's preliminary findings were discussed with you and your staff on the last day of the review. The review team's proposed recommendations are that the Alabama Agreement State program be found adequate and compatible with NRC's program.

NRC conducts periodic reviews of Agreement State programs to ensure that public health and safety are adequately protected from the potential hazards associated with the use of radioactive materials and that Agreement State programs are compatible with NRC's program. The process, titled IMPEP, employs a team of NRC and Agreement State staff to assess both Agreement State and NRC Regional Office radioactive materials programs. All reviews use common criteria in the assessment and place primary emphasis on performance. One additional area applicable to your program has been identified as a non-common performance indicator and is also addressed in the assessment. The final determination of adequacy and compatibility of each Agreement State program, based on the review team's report, will be made by a Management Review Board (MRB) composed of NRC managers and an Agreement State program manager who serves as a liaison to the MRB.

In accordance with procedures for implementation of IMPEP, we are providing you with a copy of the draft team report for your review and comment prior to submitting the report to the MRB. Comments are requested within four weeks from your receipt of this letter. This schedule will permit the issuance of the final report in a timely manner that will be responsive to your needs.

The team will review the response, make any necessary changes to the report and issue it to the MRB as a proposed final report. Our preliminary scheduling places the Alabama MRB meeting in the week of June 26, 2006. I will coordinate with you to establish the date for the MRB review of the Alabama report. NRC will provide invitational travel for you or your designee to attend the MRB. NRC has video conferencing capability if it is more convenient for the State to participate through this medium. Please contact me if you desire to establish a video conference for the meeting.

If you have any questions regarding the enclosed report, please contact me at 610-337-5358.

D. Williamson

2

Thank you for your cooperation.

Sincerely,

*/RA/*

Sheri Minnick  
Regional State Agreements Officer  
Division of Nuclear Material Safety

Enclosure:  
As stated

cc w/ encl: Kirk Whatley, Director  
Office of Radiation Control  
Alabama Department of Public Health

D. Williamson

2

Thank you for your cooperation.

Sincerely,

*/RA/*

Sheri Minnick  
Regional State Agreements Officer  
Division of Nuclear Material Safety

Enclosure:  
As stated

cc w/ encl: Kirk Whatley, Director  
Office of Radiation Control  
Alabama Department of Public Health

Distribution w/encl:  
SP01  
G. Pangburn, RI  
E. Skotak, TX  
C. Maupin, STP  
B. Evans, RIV  
S. Wastler, NMSS  
A. McCraw, STP

DOCUMENT NAME: E:\Filenet\ML061180089.wpd

**SISP Review Complete: SAM (Reviewer's Initials)**

After declaring this document "An Official Agency Record" it **will** be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	RI:STP							
NAME	SMinnick/SAM9							
DATE	04/28/06							

OFFICIAL RECORD COPY

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM  
REVIEW OF ALABAMA AGREEMENT STATE PROGRAM

April 3-7, 2006

**Draft Report**

U.S. Nuclear Regulatory Commission

## 1.0 INTRODUCTION

This report presents the results of the review of the Alabama Agreement State program. The review was conducted during the period of April 3-7, 2006, by a review team comprised of technical staff members from the Nuclear Regulatory Commission (NRC) and the State of Texas. Team members are identified in Appendix A. The review was conducted in accordance with the "Implementation of the Integrated Materials Performance Evaluation Program and Rescission of Final General Statement of Policy," published in the Federal Register on October 16, 1997, and the February 26, 2004, NRC Management Directive 5.6, "Integrated Materials Performance Evaluation Program (IMPEP)." Preliminary results of the review, which covered the period of April 13, 2002, to April 7, 2006, were discussed with Alabama management on the last day of the review.

The Alabama Agreement State program is administered by the Department of Public Health (the Department), Office of Radiation Control (the Office). The Director of the Office reports to the State Health Officer, who serves as the Director of the Department. Organization charts for the Department and the Office are included as Appendix B. At the time of the review, the Alabama Agreement State program regulated 438 specific licenses authorizing Agreement materials. The review focused on the materials program as it is carried out under the Section 274b. (of the Atomic Energy Act of 1954, as amended) Agreement between the NRC and the State of Alabama.

In preparation for the review, a questionnaire addressing the common and non-common performance indicators was sent to the Office on January 24, 2006. The Office provided its response to the questionnaire on March 27, 2006. A copy of the questionnaire response may be found on the NRC's Agencywide Documents Access and Management System (ADAMS) using the Accession Number ML060870402.

The review team's general approach for conduct of this review consisted of: (1) examination of Alabama's response to the questionnaire; (2) review of applicable Alabama statutes and regulations; (3) analysis of quantitative information from licensing and inspection databases; (4) technical review of selected files; (5) two field accompaniments of an Alabama inspector; and (6) interviews with staff and management to answer questions or clarify issues. The review team evaluated the information gathered against the IMPEP performance criteria for each common and applicable non-common indicator and made a preliminary assessment of the Agreement State program's performance.

Section 2 below discusses the Program's actions in response to recommendations made during the previous review. Results of the current review for the IMPEP common performance indicators are presented in Section 3. Section 4 discusses results of the applicable non-common performance indicators, and Section 5 summarizes the review team's findings.

## 2.0 STATUS OF ITEMS IDENTIFIED IN PREVIOUS REVIEWS

During the previous IMPEP review, which concluded on April 12, 2002, no recommendations were made by the review team.

## 3.0 COMMON PERFORMANCE INDICATORS

IMPEP identifies five common performance indicators to be used in reviewing both NRC Regional and Agreement State programs. These indicators include: (1) Technical Staffing and Training, (2) Status of Materials Inspection Program, (3) Technical Quality of Inspections, (4) Technical Quality of Licensing Actions, and (5) Technical Quality of Incident and Allegation Activities.

### 3.1 Technical Staffing and Training

Issues central to the evaluation of this indicator include the Office's staffing level and staff turnover, as well as the technical qualifications and training histories of the staff. To evaluate these issues, the review team examined the Office's questionnaire response relative to this indicator; interviewed Office management and staff; and reviewed job descriptions, training plans, and training records. The review team also considered any possible workload backlogs in evaluating this indicator; however, no licensing or inspection casework backlogs were identified.

The Office has a Director, an Assistant Director, and four technical Branches: the Inspection Branch; the Licensing Branch; the Healing Arts and X-Ray Branch; and the Emergency Planning and Environmental Monitoring Branch. The Inspection and Licensing Branches make up the Agreement State program. The Office Director spends approximately twenty percent of his time on Agreement State program activities. Among other duties, the Assistant Director, who is a Certified Health Physicist, provides technical assistance to the staff and handles allegations.

There are two technical staff positions and one Branch Director position in both the Inspection Branch and Licensing Branch. One staff member is new to the Alabama materials program and one staff member has returned to the Office after 20 years of service with another Agreement State program. The Office currently has no vacancies in the Agreement State program.

The Office Director is very supportive of staff training opportunities, as well as staff participation in working groups. All but two staff members have attended the five-week Health Physics course conducted by the Oak Ridge Institute of Science and Education. The remaining two staff members were attending the course during the week of the review. The Inspection Branch Director and primary inspector both attended the NRC Security Systems and Principles Course in Autumn 2005.

The review team noted that the Office experienced stable funding during the review period due to the Alabama law that established radioactive materials licensing fees at 75 percent of the fees that the NRC charges its materials licenses. The Office is fully funded from fees.

The Office has a documented training plan that is consistent with the guidance in the NRC/Organization of Agreement States Training Working Group Report and NRC's Inspection

Manual Chapter (MC) 1246. They also have on-the-job training to supplement the course work so that individuals may broaden their work areas. New staff members are assigned increasingly complex licensing duties and accompany more experienced inspectors during increasingly complicated inspections under the direction of their Branch Director. Inspectors are assigned independent inspections after demonstrating competence during accompaniment evaluations by the Branch Director. The team confirmed that the new staff are in the process of gaining qualifications at an appropriate pace.

The Radiation Advisory Board (the Board) is an advisory board to the State Health Officer. The Board serves in an advisory capacity when requested by the State Health Officer. Several members of the Board are either licensed themselves or work for licensees. Members of the Board are required to file annual Ethics Commission Statements regarding their service and possible conflicts of interests.

Based on the IMPEP evaluation criteria, the review team recommends that Alabama's performance with respect to the indicator, Technical Staffing and Training, be found satisfactory.

### 3.2 Status of Materials Inspection Program

The review team focused on five factors while reviewing this indicator: inspection frequency, overdue inspections, initial inspections of new licenses, timely dispatch of inspection findings to the licensees, and the performance of reciprocity inspections. The review team's evaluation is based on the Office's questionnaire response relative to this indicator, data gathered from the Office's licensee database, examination of completed inspection casework, and interviews with staff.

A Department memorandum dated May 12, 2004, entitled "License and Registration Inspections Priority," established that inspections be conducted in accordance with the priority schedule provided in MC 2800, with more frequent inspections in some categories. For example, all NRC Priority T (telephone) programs are considered Priority 5 by the Office. The memorandum also established a policy for more frequent inspections of licensees whose previous inspection identified violations, based on severity and repetition.

The Office maintains an "Inspections Due" database, sorted by priority, to identify the inspection due dates of all licensees. The database contains sufficient information for proper management of the inspection program. The Inspection Branch conducts an average of 106 inspections per year. Only one inspection was conducted overdue during the review period. This inspection was incorrectly coded as an out-of-state licensee, which resulted in a delay in conducting the initial inspection. The percentage of overdue inspections was below one percent of the inspections conducted by the Office during the review period.

The review team noted that the Office routinely performed inspections of materials licensees on an unannounced basis, except for initial inspections. Initial inspections of new licensees are scheduled for nine months after the date the license is issued. An inspection is performed before the end of the first year of license issuance independent of whether materials have been acquired or not. Fifty-five initial inspections were performed during the review period. All initial inspections were conducted within the scheduled interval, except for the one overdue inspection mentioned above.

NRC allows Agreement State licensees 180 days of use of radioactive materials in NRC jurisdiction under reciprocity. Alabama regulations only allow 30 days of use of radioactive materials in the State under reciprocity. After thirty days, an out-of-State Alabama license must be obtained. Holders of these out-of-State licenses are required to give a notification in advance of any use of radioactive material in Alabama.

Because of the short reciprocity interval, the review team could not directly apply the reciprocity inspection goal of 20 percent, as prescribed by MC 1220, to this program. Many companies have out-of-state Alabama licenses and are inspected annually by the program. The review team found that many of the reciprocity licensees entered the State for one to two days throughout the year for jobs lasting only a few hours each trip, and thus attempted inspections were not able to be completed. Office management indicated that performing reciprocity inspections remains a goal of the Office. The review team concluded that the Office's performance of reciprocity inspections over the review period was acceptable.

The timeliness of the issuance of inspection findings was evaluated by the team's review of inspection casework. Fifty-four inspection reports from 25 inspection files were reviewed for timeliness. All inspection reports are signed by the Inspection Branch Director. The inspection results were transmitted to licensees within 30 days, with four exceptions. All four overdue letters involved enforcement actions.

Based on the IMPEP evaluation criteria, the review team recommends that Alabama's performance with respect to the indicator, Status of Materials Inspection Program, be found satisfactory.

### 3.3 Technical Quality of Inspections

The review team evaluated the inspection reports, enforcement documentation, and inspection field notes, and interviewed inspectors for 25 radioactive materials inspections conducted during the review period. The casework reviewed included inspections by six materials inspectors and covered inspections of various types including: industrial radiography, medical broad scope, medical institutions, nuclear pharmacies, research and development, nuclear laundry, blood irradiator, and source material. Appendix C lists the inspection casework reviewed for completeness and adequacy.

Based on the casework reviews, the review team found that routine inspections covered all aspects of a licensee's radiation protection program. Inspection reports were thorough, complete, consistent, and of high quality, with sufficient documentation to ensure acceptable performance with respect to health and safety by the licensee. Previous violations and other findings are reviewed during each subsequent inspection. Draft reports were reviewed and approved by supervisors in a timely manner. Inspection findings led to appropriate and prompt regulatory action. Team inspections were performed when appropriate and for training purposes.

Documentation in the inspection files adequately supported any cited violations, recommendations made to licensees, unresolved safety issues, and discussions held with the licensee during exit meetings. The review team noted that the inspector checklists do not specifically mention public dose assessments and the effluent Constraint Rule requirements, and therefore there was no documentation of inspection reviews in these areas. The review

team discussed the benefits of including these items in the inspector checklists for completeness.

During the review period, the Inspection Branch Director performed annual accompaniments of the fully-qualified inspector and performed additional accompaniments of the new inspector going through the qualification process. The review team noted that the Inspection Branch Director conducted materials inspections on a routine basis (about once per month); however, since the Office's internal procedures do not require accompaniments for a Director, he was not accompanied annually. The review team found this practice acceptable because of the extensive experience of the Inspection Branch Director.

The review team noted that all technical staff members are equipped with a combination cell phone/two-way radio for communication. Inspectors can contact the office immediately if there is a problem in the field. The inspectors can also be reached anywhere in the State of Alabama if the need arises.

The Office maintains a sufficient number and variety of survey instruments to perform radiological surveys of materials licensees. The review team examined the State's instrumentation and observed that the survey instruments were calibrated and operable.

The review team accompanied one materials inspector during the period of March 7-8, 2006. The inspector was accompanied on inspections of a medical licensee and an industrial radiography licensee. These accompaniments are identified in Appendix C. During the accompaniments, the inspector demonstrated appropriate performance-based inspection techniques and knowledge of regulations. The inspector was prepared and was thorough in the reviews of the licensees' radiation safety programs. Overall, the technical performance of the inspector was excellent and adequately assessed radiological health and safety.

Based on the IMPEP evaluation criteria, the review team recommends that Alabama's performance with respect to the indicator, Technical Quality of Inspections, be found satisfactory.

### 3.4 Technical Quality of Licensing Actions

The review team examined completed licensing casework and interviewed license reviewers for 17 specific licenses. Licensing actions were reviewed for completeness, consistency, proper radioisotopes and quantities, qualifications of authorized users, adequate facilities and equipment, adherence to good health physics practices, financial assurance, operating and emergency procedures, appropriateness of the license conditions, and overall technical quality. The casework was also reviewed for timeliness, use of appropriate deficiency letters and cover letters, reference to appropriate regulations, product certifications, supporting documentation, consideration of enforcement history, pre-licensing visits, supervisory review as indicated, and proper signatures. The casework was checked for retention of necessary documents and supporting data.

The licensing casework was selected to provide a representative sample of licensing actions that were completed during the review period. Licensing actions selected for evaluation included three new licenses, five renewals, nine amendments, and two terminations. The sampling included the following types of licenses: medical (institution, private practice, and

broad scope), nuclear laundry, industrial radiography, well logging, portable and fixed gauges, radioisotope and sealed source radiotherapy, decontamination services, and a nuclear pharmacy. A listing of the licensing casework evaluated can be found in Appendix D.

The review team found that the licensing actions were thorough, complete, consistent, and of acceptable quality with health and safety issues properly addressed. Licenses are issued for a five year period under a timely renewal system. License tie-down conditions were stated clearly, backed by information contained in the file, and inspectable. Standard license conditions are used. The licensee's compliance history was taken into account when reviewing all renewal applications and major amendments. Terminated licensing actions are well documented, showing appropriate transfer and survey records. The exemptions noted in the questionnaire response relative to this indicator were determined to be appropriate and well documented by license conditions.

In addition to review by the license reviewer, the Licensing Branch Director performs a technical review on all licensing actions. All licenses are signed by the Office Director and the State Health Officer.

The review team examined the licensees that the Office had determined met the criteria for the increased controls per COMSECY-05-0028. The review team determined that the Office had correctly identified the licensees that require increased controls based on this criteria, and will continue to issue increased controls to any additional licensees, as appropriate. Each licensee was issued a license amendment requiring increased controls in accordance with the time lines established by the Commission in the Staff Requirements Memorandum (SRM) for COMSECY-05-0028. The Office has started to plan for the initial set of inspections of these licensees in accordance with the increased control requirements.

Based on the IMPEP evaluation criteria, the review team recommends that Alabama's performance with respect to the indicator, Technical Quality of Licensing Actions, be found satisfactory.

### 3.5 Technical Quality of Incident and Allegation Activities

In evaluating the effectiveness of the Office's actions in responding to incidents, the review team examined the Office's response to the questionnaire relative to this indicator, evaluated selected incidents reported for Alabama in the Nuclear Material Events Database (NMED) against those contained in the Office files, and evaluated the casework and supporting documentation for radioactive materials incidents. A list of the incident casework examined, with case-specific comments, is included in Appendix E. The team also reviewed the Office's response to allegations involving radioactive materials including those referred to the State by the NRC during the review period. The review team also discussed the Office's incident and allegation policies, procedures, files, and tracking system were discussed with the staff.

The review team identified 174 incidents in NMED for the State of Alabama during the review period and selected 17 incidents for review. The incidents included: damaged equipment, equipment failures, a fire, medical events, an abnormal occurrence, lost and stolen radioactive material, leaking sources, and an overexposure. The review team found that the Office's response to incidents was complete and comprehensive. Initial responses were prompt and well-coordinated, and the level of effort was commensurate with the health and safety

significance. The Office dispatched inspectors for on-site investigations when appropriate, and took suitable enforcement and follow-up actions.

The responsibility for initial response and follow-up actions to materials incidents may be assigned to any member of the materials program. Upon receipt, Office staff reviews the incident, decides on the appropriate response, and logs the incident into the Office's log book. Documentation related to an incident is placed both in an incident file and in the appropriate license docket file.

The Office's incident procedure indicates that events requiring immediate notification be provided to the NRC within 24 hours, and 30-60 day reportable events are provided to the NRC in monthly reports. The review team noted that the Office usually meets the 24 hour notification of significant events. All the incidents requiring 30-60 day notification were reported to the NRC within the required time frame. The Office uses the latest NMED software to track all radioactive material incidents. Three staff members are trained in the use of the computer system and one staff member manages the State's submissions. The Office promptly responded to requests for information from the NMED contractor by emails with attachments.

In evaluating the effectiveness of Alabama's actions responding to allegations, the review team examined the Office's questionnaire response relative to this indicator, casework for the three allegations referred to the State by the NRC as well as the casework for four additional allegations reported directly to the State. The team noted that the State receives a relatively small number of allegations. The Office evaluates each allegation and determines the proper level of response. The review of the casework indicated that the Office took prompt and appropriate action in response to the concerns raised. All of the allegations reviewed were appropriately closed and the review team noted that allegations were treated and documented internally in the same manner as incidents. The State makes every effort to protect an alleged's identity, and it is only released for a good cause. There were no performance issues identified from the review of the casework documentation.

Based on the IMPEP evaluation criteria, the review team recommends that Alabama's performance with respect to the indicator, Technical Quality of Incident and Allegation Activities, be found satisfactory.

#### 4.0 NON-COMMON PERFORMANCE INDICATORS

IMPEP identifies four non-common performance indicators to be used in reviewing Agreement State Programs: (1) Compatibility Requirements; (2) Sealed Source and Device Evaluation Program; (3) Low-Level Radioactive Waste Disposal Program; and (4) Uranium Recovery Program. Only the first non-common performance indicator was applicable to this review.

##### 4.1 Compatibility Requirements

###### 4.1.1 Legislation

Legislative authority to create the program and enter into an Agreement with the NRC was granted in 1963 (Acts of 1963, No. 582). The State Board of Health is designated as the State's radiation control agency. Along with the Office's response to the questionnaire relative to this indicator, the staff provided the review team with the opportunity to review copies of

legislation that affects the radiation control program. The review team noted that the legislation had not changed since the previous IMPEP review.

#### 4.1.2 Program Elements Required for Compatibility

The State regulations for control of radiation are located in Chapter 420-3-26 of the Alabama regulations for Control of Radiation and apply to ionizing and non-ionizing radiation, whether emitted from radionuclides or devices. Alabama requires a license for possession and use of radioactive materials, including naturally-occurring and accelerator-produced radioactive material.

The review team examined the procedures used in the State's rulemaking process and found that the public and other interested parties are offered an opportunity to comment on proposed regulation changes. Rulemaking responsibility is assigned to the Office Director. Draft regulations are sent to the NRC for review. The package of proposed regulations prepared by the Office requires review by the Alabama Office of General Counsel and approval from the State Committee of Public Health (SCPH). The State has Emergency Rule capability, if public health and safety is at risk. Although the State's rules and regulations are not subject to "sunset" laws, the entire program is subject to a sunset review every four years. The most recent review in 2005 recommended for continuance of the program.

The review team evaluated Alabama's response to the questionnaire relative to this indicator, reviewed the status of regulations required to be adopted by the State under the Commission's adequacy and compatibility policy, and verified the adoption of regulations with data obtained from the Office of State and Tribal Program's State Regulation Status Data Sheet. Since the previous IMPEP review, the Department adopted two regulation amendments. These regulations were:

- "Respiratory Protection and Controls to Restrict Internal Exposures," 10 CFR Part 20 amendment (64 FR 54543; 64 FR 55524).
- "Revision of the Skin Dose Limit," 10 CFR Part 20 amendment (67 FR 16298).

Currently, the Office has six regulations in one rule package that is out for public comment. The package is expected to be adopted by SCPH by May 17, 2006, and will become effective 35 days after publication. The entire rule package was delayed within STP, due to the resolution of issues associated with the regulation "Requirements for Certain Generally Licensed Industrial Devices Containing Byproduct Material." These regulations are:

- "Energy Compensation Sources for Well Logging and Other Regulatory Clarifications," 10CFR Part 39 amendment (65 FR 20337) that became effective May 17, 2000 and was to be implemented by May 17, 2003.
- "New Dosimetry Technology," 10 CFR Parts 34, 36, and 39 amendments (65 FR 63749) that became effective January 8, 2001 and was to be implemented by January 8, 2004.
- "Requirements for Certain Generally Licensed Industrial Devices Containing Byproduct Material," 10 CFR Parts 30, 31, and 32 amendments (65 FR 79162) that became effective February 16, 2001 and was to be implemented by February 16, 2004.

- “Medical Use of Byproduct Material,” 10 CFR 20, 32, and 35 amendments (67 FR 20249) that became effective October 24, 2002 and was to be implemented by October 24, 2005.
- “Financial Assurance for Materials Licensees,” 10 CFR Parts 30, 40, and 70 amendment (67 FR 57327) that became effective December 3, 2003.
- “Medical Use of Byproduct Material - Recognition of Specialty Boards,” 10 CFR Part 35 amendments (70 FR 16336) that became effective April 29, 2005.

The Office will need to address the following three regulations in upcoming rule makings or by adopting alternate legally-binding requirements:

- “Compatibility with IAEA Transportation Safety Standards and Other Transportation Safety Amendments,” 10 CFR Part 71 amendment (69 FR 3697) that became effective October 1, 2004.
- “Security Requirements for Portable Gauges Containing Byproduct Material,” 10 CFR Part 30 amendment (70 FR 2001) that became effective July 11, 2005.
- “Medical Use of Byproduct Material - Recognition of Specialty Boards; Correction” 10 CFR Part 35 amendment (71 FR 1926) became effective January 12, 2006.

In order to inform portable gauge licensees of the new requirements for security of portable gauges in a timely manner, on January 15, 2004, the Office issued a letter describing acceptable means of the use of two independent physical controls.

Based on IMPEP evaluation criteria, the review team recommends that Alabama’s performance with respect to the indicator, Compatibility Requirements, be found satisfactory.

## 5.0 SUMMARY

As noted in Sections 3 and 4 above, the review team found Alabama’s performance to be satisfactory for all applicable performance indicators. The review team made no recommendations regarding the performance of the Alabama Agreement State program. Accordingly, the review team recommends that the Alabama Agreement State program be found adequate to protect public health and safety and compatible with NRC’s program. Based on the results of the current IMPEP review, the review team recommends that the next full IMPEP review take place in approximately four years.

## LIST OF APPENDICES

Appendix A	IMPEP Review Team Members
Appendix B	Alabama Organization Charts
Appendix C	Inspection Casework Reviews
Appendix D	License Casework Reviews
Appendix E	Incident Casework Reviews

## APPENDIX A

### IMPEP REVIEW TEAM MEMBERS

<b>Name</b>	<b>Area of Responsibility</b>
Sheri Minnick, Region I	Team Leader Technical Staffing and Training
Robert Evans, Region IV	Status of Materials Inspection Program Technical Quality of Inspections Inspector Accompaniments
Eric Skotak, TX	Technical Quality of Licensing Actions
Cardelia Maupin, STP	Technical Quality of Incident and Allegation Activities
Sandra Wastler, NMSS	Compatibility Requirements

APPENDIX B

ALABAMA ORGANIZATION CHARTS

ADAMS: ML061020532

## APPENDIX C

### INSPECTION CASEWORK REVIEWS

NOTE: CASEWORK LISTED WITHOUT COMMENT ARE INCLUDED FOR COMPLETENESS ONLY. NO SIGNIFICANT COMMENTS WERE IDENTIFIED BY THE REVIEW TEAM.

File No.: 1  
Licensee: Space Science Services, Inc.  
Inspection Type: Routine, Unannounced  
Inspection Date: 8/23/05  
License No.: 217  
Priority: 1  
Inspectors: KH, MR

File No.: 2  
Licensee: University of Alabama - Birmingham  
Inspection Type: Routine, Unannounced  
Inspection Dates: 2/07-10/06  
License No.: 266  
Priority: 1  
Inspectors: DT, MR

File No.: 3  
Licensee: University of South Alabama  
Inspection Type: Routine, Unannounced  
Inspection Dates: 10/5-13/05  
License No.: 584  
Priority: 1  
Inspector: MR

File No.: 4  
Licensee: Southern Company  
Inspection Type: Routine, Unannounced  
Inspection Date: 12/6/05  
License No.: 644  
Priority: 1  
Inspector: MR

File No.: 5  
Licensee: GE Inspection Services, Inc.  
Inspection Type: Routine, Announced  
Inspection Date: 1/10/06  
License No.: 754  
Priority: 1  
Inspector: MR

File No.: 6  
Licensee: Cardinal Health (Huntsville)  
Inspection Type: Routine, Unannounced  
Inspection Date: 2/16/06  
License No.: 1068  
Priority: 1  
Inspector: MR

File No.: 7  
Licensee: MISTRAS Holding Group  
Inspection Type: Routine, Unannounced  
Inspection Date: 2/15/06  
License No.: 1075  
Priority: 1  
Inspector: MR

File No.: 8  
Licensee: Cox Nuclear Pharmacy  
Inspection Type: Routine, Unannounced  
Inspection Date: 2/25/05  
License No.: 1111  
Priority: 1  
Inspector: MR

File No.: 9  
Licensee: Unified Testing and Engineering  
Inspection Type: Routine, Unannounced  
License No.: 1128  
Priority: 1

Inspection Date: 3/7/06

Inspector: MR

File No.: 10

Licensee: Cardinal Health (Birmingham)  
Inspection Type: Routine, Unannounced  
Inspection Date: 12/7/05

License No.: 1168  
Priority: 1  
Inspector: MR

File No.: 11

Licensee: Oceaneering International, Inc.  
Inspection Type: Routine, Unannounced  
Inspection Date: 7/7/05

License No.: 1255  
Priority: 1  
Inspector: DT

File No.: 12

Licensee: Team Industrial Services, Inc.  
Inspection Type: Routine, Unannounced  
Inspection Date: 7/7/05

License No.: 1313  
Priority: 1  
Inspectors: DT, RS

File No.: 13

Licensee: American Cast Iron Pipe Co.  
Inspection Type: Routine, Unannounced  
Inspection Date: 3/10/05

License No.: 338  
Priority: 2  
Inspector: MR

File No.: 14

Licensee: Brookwood Medical Center  
Inspection Type: Routine, Unannounced  
Inspection Dates: 5/6-7/04

License No.: 459  
Priority: 2  
Inspector: MR

File No.: 15

Licensee: Wyle Laboratories  
Inspection Type: Routine, Unannounced  
Inspection Dates: 8/26-27/04

License No.: 525  
Priority: 2  
Inspector: MR

File No.: 16

Licensee: Eastern Technologies  
Inspection Type: Routine, Unannounced  
Inspection Dates: 5/18-19/05

License No.: 947  
Priority: 2  
Inspector: MR

File No.: 17

Licensee: Tri-State Cancer Center  
Inspection Type: Initial Inspection  
Inspection Due: 7/19/06

License No.: 1423  
Priority: 2  
Inspector: N/A

File No.: 18

Licensee: Southern Research Institute  
Inspection Type: Routine, Unannounced  
Inspection Dates: 3/15-16/05

License No.: 262  
Priority: 3  
Inspector: MR

File No.: 19

Licensee: Shelby Baptist Medical Center  
Inspection Type: Routine, Unannounced  
Inspection Date: 3/8/06

License No.: 498  
Priority: 3  
Inspector: MR

File No.: 20

Licensee: Rusty's Well Service  
Inspection Type: Routine, Unannounced  
Inspection Date: 9/20/02

License No.: 1005  
Priority: 3  
Inspector: DT

File No.: 21

Licensee: State of Alabama, Dept. of Public Health  
Inspection Type: Routine, Unannounced  
Inspection Date: 10/3/03

License No.: 220  
Priority: 5  
Inspector: BS

File No.: 22

Licensee: Qore, Inc.  
Inspection Type: Routine, Unannounced  
Inspection Date: 3/8/06

License No.: 1022  
Priority: 5  
Inspector: CC

File No.: 23

Licensee: American Red Cross Blood Services  
Inspection Type: Routine, Unannounced  
Inspection Date: 3/5/03

License No.: 1026  
Priority: 5  
Inspector: DT

File No.: 24

Licensee: Battelle Memorial Institute  
Inspection Type: Initial, Announced  
Inspection Date: 3/29/06

License No.: 1375  
Priority: 5  
Inspector: MR

File No.: 25

Licensee: Metalworking Products  
Inspection Type: Routine, Unannounced  
Inspection Date: 5/13/04

License No.: STB-332  
Priority: 5  
Inspector: MR

#### INSPECTOR ACCOMPANIMENTS

The following inspector accompaniments were performed prior to the on-site IMPEP review:

Accompaniment No.: 1

Licensee: Unified Testing and Engineering  
Inspection Type: Routine, Unannounced  
Inspection Date: 3/7/06

License No.: 1128  
Priority: 1  
Inspector: MR

Accompaniment No.: 2

Licensee: Shelby Baptist Medical Center  
Inspection Type: Routine, Unannounced  
Inspection Date: 3/8/06

License No.: 498  
Priority: 3  
Inspector: MR

## APPENDIX D

### LICENSING CASEWORK REVIEWS

NOTE: CASEWORK LISTED WITHOUT COMMENT IS INCLUDED FOR COMPLETENESS ONLY. NO SIGNIFICANT COMMENTS WERE IDENTIFIED BY THE REVIEW TEAM.

File No.: 1  
Licensee: Gulf States Steel, Inc.  
Type of Action: Termination  
Date Issued: 12/13/05  
License No: 894  
Amendment No.: 7  
License Reviewer: DW

File No.: 2  
Licensee: Unified Testing and Engineering Services, Inc.  
Type of Action: Amendment  
Date Issued: 2/28/06  
License No: 1128  
Amendment No.: 12  
License Reviewer: NM

File No.: 3  
Licensee: UAB Highlands  
Types of Action: Renewal, Amendment  
Dates Issued: 9/15/05, 3/20/06  
License No: 1179  
Amendment Nos.: 9, 10  
License Reviewers: DW, KH

File No.: 4  
Licensee: Protechnics  
Type of Action: New  
Date Issued: 1/18/06  
License No: 1427  
Amendment No.: N/A  
License Reviewer: DW

File No.: 5  
Licensee: University of South Alabama  
Type of Action: Amendments  
Date Issued: 11/3/05, 2/7/06  
License No: 584  
Amendment Nos.: 57, 58  
License Reviewer: KH

File No.: 6  
Licensee: Brookwood Medical Center  
Type of Action: Renewal  
Date Issued: 8/11/04  
License No: 459  
Amendment No.: 97  
License Reviewer: BS

File No.: 7  
Licensee: Team Industrial Services, Inc.  
Type of Action: Amendment  
Date Issued: 11/8/05  
License No: 1313  
Amendment No.: 10  
License Reviewer: NM

File No.: 8  
Licensee: Huntsville Hospital System  
Type of Action: Renewal  
Date Issued: 9/28/05  
License No: 274  
Amendment No.: 119  
License Reviewer: DW

File No.: 9  
Licensee: Pope Engineering and Testing Labs  
Type of Action: Termination  
License No: 1047  
Amendment No.: 8

Date Issued: 10/4/05

License Reviewer: KH

File No.: 10

Licensee: Shelby Baptist Medical Center

Type of Action: Amendment

Date Issued: 3/16/06

License No: 498

Amendment No.: 36

License Reviewer: KH

File No.: 11

Licensee: American Cast Iron Pipe Company

Type of Action: Amendment

Date Issued: 9/3/05

License No: 338

Amendment No.: 25

License Reviewer: KH

File No.: 12

Licensee: Advanced Medical Imaging Center

Type of Action: Amendment

Date Issued: 12/6/04

License No: 1078

Amendment No.: 9

License Reviewer: DW

File No.: 13

Licensee: Cox Nuclear Pharmacy, Inc.

Type of Action: Renewal

Date Issued: 8/11/03

License No: 1111

Amendment No.: 21

License Reviewer: DW

File No.: 14

Licensee: Eastern Technologies, Inc.

Type of Action: Amendment

Date Issued: 8/29/05

License No: 947

Amendment No.: 15

License Reviewer: DW

File No.: 15

Licensee: Tri-State Cancer Center

Type of Action: New

Date Issued: 10/19/05

License No: 1423

Amendment No.: N/A

License Reviewer: DW

File No.: 16

Licensee: Walker Real Estate, LLC

Type of Action: New

Date Issued: 1/18/06

License No: 1428

Amendment No.: N/A

License Reviewer: NM

File No.: 17

Licensee: Wyle Laboratories

Type of Action: Renewal

Date Issued: 9/27/04

License No: 525

Amendment No.: 30

License Reviewer: BS

## APPENDIX E

### INCIDENT CASEWORK REVIEWS

NOTE: CASEWORK LISTED WITHOUT COMMENT ARE INCLUDED FOR COMPLETENESS ONLY. INCIDENT LOG NUMBERS WERE NOT NOTED. THE INCIDENT IS REFERENCED BY THE NMED NUMBER ONLY.

File No.: 1

Licensee: Consoer Townsend  
Envirodyne Eng., Inc..

Date of Incident: 6/11/03

Investigation Date: 6/17/03

License No.: 1254

Incident Log No.: NMED 030614

Type of Incident: Damage to Gauge

Type of Investigation: Inspection

File No.: 2

Licensee: Sloss Industries

Date of Incident: 8/13/03

Investigation Date: 8/14/03

License No.: 271

Incident Log No.: NMED 030771

Type of Incident: Equipment Failure

Type of Investigation: Inspection

File No.: 3

Licensee: Eastern Technologies, Inc.

Date of Incident: 1/6/04

Investigation Date: 1/13/04

License No.: 947

Incident Log No.: NMED 040083

Type of Incident: Fire

Type of Investigation: Inspection

File No.: 4

Licensee: Northeast Alabama  
Regional Med. Ctr.

Date of Incident: 8/10/04

Investigation Date: 10/14/04

License No.: 315

Incident Log No.: NMED 040610

Type of Incident: Medical Event  
(Abnormal Occurrence)

Type of Investigation: Inspection

Comment:

This was a significant event requiring reporting to the NRC within 24-hours. The incident occurred on 8/10/04, was discovered on 8/12/04, and reported to State on 8/17/04. The State indicated that they delayed reporting to the NRC until 8/24/04 because they were awaiting additional information from the licensee.

File No.: 5

Licensee: BP AMOCO Chemicals

Date of Incident: 12/2/04

Investigation Date: 12/2/04

License No.: 256

Incident Log No.: NMED 040853

Type of Incident: Equipment Failure

Type of Investigation: Phone

File No.: 6

Licensee: Cardinal Health Nuclear Pharmacy  
Date of Incident: 5/13/05  
Investigation Date: 5/13/05

License No.: 1068  
Incident Log No.: NMED 050435  
Type of Incident: Medical Event  
Type of Investigation: Phone

File No.: 7

Licensee: Cardinal Health Nuclear Pharmacy  
Date of Incident: 9/2/05  
Investigation Date: 9/2/05

License No.: 1068  
Incident Log No.: NMED 050789  
Type of Incident: Medical Event  
Type of Investigation: Phone

File No.: 8

Licensee: Baptist Medical Ctr. Princeton  
Date of Incident: 9/20/05  
Investigation Dates: 9/20-22/05

License No.: 600  
Incident Log No.: NMED 050640  
Type of Incident: Medical Event, Leaking Source  
Type of Investigation: Phone

File No.: 9

Licensee: Goodwin, Mills & Cawood, Inc.  
Date of Incident: 12/12/05  
Investigation Dates: 12/12/05

License No.: 1404  
Incident Log No.: NMED 050811  
Type of Incident: Stolen Gauge  
Type of Investigation: Inspection

File No.: 10

Licensee: University of Alabama  
Date of Incident: 12/6/04  
Investigation Date: 12/6/04

License No.: 164  
Incident Log No.: NMED 060093  
Type of Incident: Leaking Source  
Type of Investigation: Inspection

File No.: 11

Licensee: International Paper  
Date of Incident: 10/21/05  
Investigation Date: 10/21/05

License No.: 581  
Incident Log No.: NMED 060170  
Type of Incident: Lost/Stolen Material  
Type of Investigation: Phone

Comment:

This was a significant event requiring reporting to the NRC within 24-hours. The incident was reported to the State on 10/21/05, and inadvertently not reported to the NRC until 2/28/06.

File No.: 12

Licensee: Thompson Engineering and Testing, Inc.  
Date of Incident: Between 9/1/02 and 3/10/03  
Investigation Date: 10/22/03

License No.: 694  
Incident Log No.: NMED 032060  
Type of Incident: Lost/Stolen Material  
Type of Investigation: Phone

File No.: 13

Licensee: University of Alabama  
Date of Incident: 4/22/02  
Investigation Dates: 4/22-25/02

License No.: 266  
Incident Log No.: NMED 020437  
Type of Incident: Lost/Stolen Material  
Type of Investigation: Inspection

File No.: 14

Licensee: Code Services, Inc.  
Date of Incident: 5/24/02  
Investigation Dates: 5/24/6/7/02

License No.: 1075  
Incident Log No.: NMED 020674  
Type of Incident: Overexposure  
Type of Investigation: Inspection

File No.: 15

Licensee: Building And Earth Sciences, Inc.  
Date of Incident: 9/18/02  
Investigation Date: 9/18/02

License No.: 1266  
Incident Log No.: NMED 020887  
Type of Incident: Lost/Stolen Material  
Type of Investigation: Referral to TN

File No.: 16

Licensee: East Alabama Medical Center  
Date of Incident: 9/5/02  
Investigation Date: 9/5/02

License No.: 105  
Incident Log No.: NMED 020931  
Type of Incident: Leaking Source  
Type of Investigation: Phone

File No.: 17

Licensee: DCH Regional Medical Center  
Date of Incident: 9/12/02  
Investigation Date: 9/12/02

License No.: 219  
Incident Log No.: NMED 021053  
Type of Incident: Lost/Stolen Material  
Type of Investigation: Phone