

DATED: AUGUST 12, 1996

SIGNED BY: HUGH L. THOMPSON, JR.

Mr. John H. Morse, Secretary
Cabinet for Health Services
275 East Main Street
Frankfort, KY 40621-001

Dear Mr. Morse:

On July 17, 1996, the Management Review Board (MRB) met to consider the proposed final Integrated Materials Performance Evaluation Program (IMPEP) report on the Kentucky Agreement State Program. The MRB considered and concurred with the review team's recommendation that the Kentucky program be found adequate to protect public health and safety and compatible with NRC's regulatory program. Based on State performance, the next IMPEP review will be scheduled in four years, unless program concerns develop that require an earlier evaluation.

NRC recognizes the efforts of Kentucky and the other Agreement States to maintain an adequate and compatible program. During the MRB meeting, the MRB discussed with the review team the extent of the heavy workload handled by the program, not only in the Agreement Materials area, but also in other radiation control program areas as well. One example relates to the programs' response to non-Atomic Energy Act material incidents. Kentucky's efforts to maintain an adequate and compatible program while at the same time devoting significant effort in other programs, such as in response to these incidents, is commendable. Nevertheless, this is an area that appears to need a resource evaluation review to ensure that sufficient staffing is available to respond to all program areas, while maintaining the ability to adequately protect public health and safety.

Section 5 page 20 of the enclosed final report presents the IMPEP team's recommendations. We request your evaluation and response to those recommendations within 30 days from receipt of this letter.

John H. Morse

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I appreciate the courtesy and cooperation extended to the IMPEP team during the review.

Sincerely, */RAI*

Hugh L. Thompson, Jr.
Deputy Executive Director for
Nuclear Materials Safety, Safeguards,
and Operations Support

Enclosure:
As stated

cc: Rice C. Leach, M.D., Commissioner, Department of Public Health
John Volpe, Ph.D., Manager, Radiation & Toxic Agents Control Section

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John Volpe, Ph.D., Manager, Radiation & Toxic Agents Control Section

bcc: Chairman Jackson
Commissioner Rogers
Commissioner Dicus

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OSP FILE CODE: SP-AG-11

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM

REVIEW OF KENTUCKY AGREEMENT STATE PROGRAM

April 15-19, 1996

FINAL REPORT

U.S. Nuclear Regulatory Commission

1.0 INTRODUCTION

This report presents the results of the review of the Kentucky radiation control program. The review was conducted during the period April 15-19, 1996, by a review team comprised of technical staff members from the Nuclear Regulatory Commission (NRC) and the Agreement State of Alabama. Team members are identified in Appendix A. The review was conducted in accordance with the "Interim Implementation of the Integrated Materials Performance Evaluation Program Pending Final Commission Approval of the Statement of Principles and Policy for the Agreement State Program and the Policy Statement on Adequacy and Compatibility of Agreement State Programs," published in the Federal Register on October 25, 1995, and the September 12, 1995, NRC Management Directive 5.6, "Integrated Materials Performance Evaluation Program (IMPEP)." Preliminary results of the review, which covered the period May 13, 1994, to April 19, 1996, were discussed with Kentucky management on April 18 and 19, 1996.

A draft of this report was issued to Kentucky for factual comment on June 13, 1996. The Commonwealth of Kentucky responded in a letter dated June 21, 1996 (Attachment 1), and the comments were incorporated into the proposed final report. The Management Review Board (MRB) met on July 17, 1996, to consider the proposed final report. The MRB concurred in the teams's overall recommendations and found that the Kentucky radiation control program was adequate to protect public health and safety and was compatible with the NRC's regulatory program.

The Cabinet for Health Services (CHS), which recently replaced the Cabinet for Human Resources, is the radiation control agency within the Commonwealth of Kentucky. The Secretary is appointed by and reports to the Governor. Within CHS, the Kentucky radiation control program is administered by the Radiation Control Branch (RCB) under the direction of the Department of Health Services through the Division of Environmental Health and Community Safety (DEHCS). The Department of Health Services will become the Department of Public Health in the near future. The RCB organization chart is included as Appendix B. The Kentucky program regulated 403 specific licensees, including the specific license for the Maxey Flats radioactive waste disposal site, at the time of the review. 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 Commonwealth of Kentucky.

In preparation for the review, a questionnaire addressing the common and non-common indicators was sent to the RCB on February 14, 1996. Kentucky provided its response to the questionnaire on March 26, 1996. A copy of that response is included as Appendix C to this report.

The review team's general approach for conduct of this review consisted of: (1) examination of Kentucky's response to the questionnaire, (2) review of applicable Kentucky statutes and regulations, (3) analysis of quantitative information from the RCB licensing and inspection data base, (4) technical review of selected files, (5) field accompaniments of one Kentucky inspector, and (6) interviews with staff and management to answer questions or clarify issues. The team evaluated the information that it gathered against the IMPEP performance criteria for each common and non-common indicator and made a preliminary assessment of RCB's performance. As noted above, that preliminary assessment was discussed with program management before the team's departure.

Section 2 below discusses the Commonwealth's actions in response to recommendations made following 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 indicators, and Section 5 summarizes the review team's findings and recommendations.

2.0 STATUS OF ITEMS IDENTIFIED IN PREVIOUS REVIEWS

The previous routine review concluded on May 13, 1994, and the results were transmitted to Masten Childers II, Secretary, Cabinet for Human Resources, on January 27, 1995.

The May 1994 review findings resulted in recommendations in six program indicators: Status and Compatibility of Regulations, Adequacy of Product Evaluations, Staffing Level, Staff Continuity, Budget, and Licensing Procedures. The Commonwealth's corrective actions in response to the recommendations were evaluated during a review visit which concluded on April 18, 1995, and with one exception, all comments and recommendations were satisfactorily resolved and closed at that time. Results of the review visit were transmitted to the present Secretary, Cabinet for Health Services, John H. Morse, on March 15, 1996.

The April 1995 review visit findings resulted in recommendations in one indicator. We recommended the RCB take the following steps to improve the sealed source and device (SS&D) evaluation program: (a) obtain engineering technical expertise for SS&D reviews, such as through contractual agreements or through State agencies or universities, that could be called upon as needed for resolution of specific engineering issues that may be encountered during SS&D reviews; (b) develop an action plan for the review of all device sheets to assure that the files contain all current background information and drawings applicable to the device safety review; (c) establish documentation in the files which show that the generally licensed (GL) devices will meet the dose requirements; and (d) amend the Commonwealth's regulations to adopt requirements equivalent to those in 10 CFR 30.32(g) and 32.210(c), or amend the SS&D licenses with conditions that specifically tie the respective devices, drawings, and background information to the license.

The current status of the above SS&D evaluation program is as follows:

- (a) The RCB Manager explained that if engineering expertise beyond the Commonwealth's capability was needed, that he had an informal arrangement with the School of Chemical Engineering, University of Kentucky, to assist the program with engineering evaluations of sealed sources and/or devices evaluations as needed. The RCB Manager also related that after receiving the SS&D Workshop training in 1995, he was confident that the Kentucky could perform the reviews in accordance with the NRC guidance received at the workshop. The review team feels that this action is sufficient and considers the issue closed.
- (b) The Commonwealth developed an action plan for the reassessment of all previously issued device sheets by reviewing one device sheet every month. Although RCB evaluated new devices during the period, workload demands prevented the reassessment of the previously approved devices. The RCB has not been able to maintain this

schedule; workload demands prevented the reassessment of the previously approved devices. RCB did review and register one new device and another device was reviewed; RCB is awaiting a response from the applicant. In Section 4.2 of this report, the team recommends that the work continue on the review of previous device sheets that remain under Kentucky jurisdiction, as planned. This recommendation is considered closed and will be tracked as a new recommendation (see Section 5.0).

- (c) One element of the Commonwealth's action plan called for documentation to be added to the files showing that the generally licensed (GL) devices meet the current dose requirements. This task was to have been completed at the time the old device sheets were reevaluated. However, since none of the previously issued device sheets were reviewed, the GL dose documentation has not been added to the files. In Section 4.2, the team also recommends that work on this portion of the action plan be continued to completion. (It should be noted that Ohmart Corporation notified Kentucky that the Kentucky facility would be closed prior to June 1996 and regulatory jurisdiction for these products will be transferred to the NRC.) This recommendation is considered closed and will be tracked as a new recommendation (see Section 5.0).
- (d) The Commonwealth amended the licenses of Ohmart (License Number 201-491-95) and Ronan (License Number 202-260-95) by incorporating the equivalent requirements of 10 CFR Part 32.210(c) into the license through the use of a binding commitment from the licensee and as incorporated into the license by license condition. The RCB manager verbally committed during the exit meetings to adopting the equivalent provisions of 10 CFR Parts 30.32(g) and 32.210(c) as regulations during the next regulation revision scheduled for FY 97. The license conditions were verified during the casework review, and the review team considers this issue closed.

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) Status of Materials Inspection Program; (2) Technical Staffing and Training, (3) Technical Quality of Licensing Actions, (4) Technical Quality of Inspections, and (5) Response to Incidents and Allegations.

3.1 Status of Materials Inspection Program

The team focused on four factors in reviewing this indicator: (1) inspection frequency, (2) overdue inspections, (3) initial inspection of new licenses, and (4) timely dispatch of inspection findings to licensees. This evaluation is based on the Kentucky's questionnaire responses regarding this indicator, data gathered independently from the Commonwealth's licensing and inspection data tracking system, the examination of licensing and inspection casework files, and interviews with managers and staff.

The team's review of the Commonwealth's inspection priorities verified that the Commonwealth's inspection frequencies for various types or groups of licenses are at least as frequent as similar license types or groups listed in the frequency schedule in the NRC Inspection Manual Chapter 2800 (IMC 2800). In reviewing the Commonwealth's priority schedule, the review team noted that the Commonwealth requires more frequent inspections in some license categories as follows: Portable gauges are scheduled to be inspected on a four year frequency vs. NRC's five year frequency, and medical private practice licenses not required to have a quality management (QM) program have a four year frequency schedule vs. NRC's frequency of five years.

The inspection frequencies of licenses selected for inspection file review were compared with the frequencies listed in the Commonwealth's data system and verified to be consistent with the Commonwealth's system and as frequent as similar license types under the IMC 2800 system.

In their response to the questionnaire, Kentucky indicated that as of April 19, 1995, only two licenses identified as core inspections in IMC 2401 or IMC 2800, as appropriate, were overdue by more than 25 percent of the NRC's frequency. This number is well within the 10 percent criterion for overdue inspections of Management Directive 5.6. In fact, one of the overdue inspections had been inspected by the time of the review. The other overdue inspection was for the Maxey Flats Low-Level Waste Project and is discussed in Section 4.3.2 of this report.

With respect to initial inspections of new licensees, the team reviewed the inspection tracking data system and verified that the initial inspections had been entered into the tracking system. Discussions with staff members were conducted to determine how initial inspections are assigned and how data are entered into the system. The administrative staff sends the data generated by the technical staff to a contractor to update the data base. This is done on a monthly basis and then a quality check is performed by supervision based upon a computer printout provided by the contractor and used for inspection planning. All initial inspections were completed within 6 months of issuance.

The timeliness of the issuance of inspection findings was also evaluated during the inspection file review. Out of the files examined, all of the inspection correspondence had been sent to the licensee within 30 days after completion of the inspection.

Kentucky reported in their response to the questionnaire that 80 different licensees had submitted requests for reciprocity during the review period, of which 18 were from licensees with inspection intervals of 3 years or less. The Commonwealth reported that one of these was inspected and five other licenses having longer inspection frequencies were inspected.

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

3.2 Technical Staffing and Training

In reviewing this indicator, the review team considered the radioactive materials program staffing level, the technical qualifications of the staff, staff training, and staff turnover. To evaluate these issues, the review team examined the Commonwealth's questionnaire responses regarding this indicator, interviewed RCB management and staff, and considered any possible backlogs in licensing or compliance actions. Technical staffing and training for the low-level radioactive waste disposal program are addressed in Section 4.3.3.

At the time of the review, Kentucky's radiation control program was staffed by the Radioactive Materials Section (RMS) Supervisor and three other health physicists under the supervision of the Radiation Control Branch Manager. The RCB Manager is also indirectly responsible for all radiation safety matters administered by other DEHCS branches, such as machine radiation and laboratory services. The review team found that the current staffing level is adequate to administer the basic regulatory program, as evidenced by the lack of backlogs in licensing and inspections. However, according to program management and team observation, complex licensing and compliance cases, complicated investigations, specialized training needs, and frequent revisions to regulations often require use of overtime and delayed personal and annual leave by the supervisors and other technical staff.

The licensing and inspection functions of the program are integrated; therefore, all health physicists perform duties in licensing, inspection, and event response. Because of the need for continuity and specialized training, however, SS&D evaluations are assigned to one of two trained individuals. Balance between the licensing and inspection functions is achieved by basing staff assignments on program needs. Personnel information provided by the RCB showed that there had been no staff turnover and no vacancies in the radioactive materials program during the review period.

From program manager interviews and review of the job descriptions, the review team determined that successful candidates for technical positions are required to have a Bachelor's degree in science for the first level and a Master's degree and/or additional radiation-related work experience for steps beyond the entry level. From review of the technical qualifications of the current radioactive materials staff, the team concluded that the Commonwealth has been able to recruit qualified individuals. All of the health physicists and the Section Supervisor have Bachelor's degrees in science; and the Branch Manager is a Ph.D.

According to the information provided in the questionnaire and the RCB training procedures, all newly hired health physicists are required to attend the NRC core training courses outlined in the now suspended May 28, 1992, Policy Statement (57 FR 224950), as well as the five-week health physics course. The records show that all radioactive materials staff members have taken the five-week health physics course and the four NRC core courses. Most other NRC courses applicable to the materials program have also been taken by all professional staff. Two

individuals have not taken the Health Physics Engineering and Safety Aspects of Well Logging courses, but management explained they expect to schedule them soon.

Program management also explained their in-house and on-job training processes in their response and during interviews. Briefly, new staff are assigned increasingly complex licensing duties under the direction of senior staff and accompany experienced inspectors during increasingly complicated inspections. New staff are assigned independent inspections after demonstrating competence during accompaniment evaluations by the RMS Supervisor. In addition, the supervisor evaluates the level of radiation protection knowledge by use of written and oral examinations during the training period. The written examinations and training accompaniment evaluations were reviewed by the team and found to be excellent. The use of written examinations is a strength in the Kentucky program. The team noted that program management exhibited a strong commitment to training during the review.

As discussed above, the staff has used overtime and delayed personal and annual leave to avoid licensing and inspection backlogs. In order to free technical staff from excessive administrative and record keeping duties, the RCB is in the process of building an in-house local area network (LAN) with a licensing and inspection data base. Program management explained that they feel that their technical staff could operate more efficiently by having access to a system to collectively store, retrieve, manipulate, and transmit data and information. The review team agrees that, once installed and operating, a LAN system should enable staff to devote more of their efforts to the technical aspects of their responsibilities, thus enhancing the overall quality of the regulatory program.

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

3.3 Technical Quality of Licensing Actions

The review team examined casework and interviewed the reviewers for 25 specific licenses. Licensing actions were reviewed for completeness, consistency, proper isotopes and quantities used, qualifications of authorized users, adequate facilities and equipment, and operating and emergency procedures sufficient to establish the basis for licensing actions. Casework was reviewed for timeliness, adherence to good health physics practices, reference to appropriate regulations, documentation of safety evaluation reports, product certifications or other supporting documents, consideration of enforcement history on renewals, pre-licensing visits, peer or supervisory review as indicated, and proper signature authorities. Licenses were reviewed for accuracy, appropriateness of the license and of its conditions and tie-down conditions, and overall technical quality. The files were checked for retention of necessary documents and supporting data.

Kentucky policy requires each licensee to review its program at five-year intervals and submit a complete program for review by the staff as part of the license renewal. The RCB renews each license annually, and amends licenses as needed. The staff makes extensive use of checklists and standard review plans.

The cases were selected to provide a representative sample of licensing actions which had been completed in the review period and to include work by all reviewers. The cross-section sampling included two of Kentucky's major licenses and included the following types: medical broad scope (with a HDR afterloader), academic broad scope, nuclear pharmacy, research and development, mobile nuclear medicine, nuclear medicine, teletherapy, portable and fixed gauges, and industrial fixed radiography. Licensing actions included 6 new licenses, 3 five-year interval renewals, 10 amendments, and 6 terminations. A list of these licenses with case-specific comments can be found in Appendix D.

The review team found that, overall, the licensing actions were generally thorough, complete, consistent, and of acceptable quality with health and safety issues properly addressed. Special license tie-down conditions were almost always stated clearly, backed by information contained in the file, and inspectable. The licensee's compliance history was taken into account when reviewing renewal applications. The Commonwealth's licensing guides and license policy procedures were revised and updated during the review period, and reviewers were observed to have good research skills in using these and other licensing documents. With few exceptions, reviewers appropriately used the new licensing guides and accompanying check sheets.

Normal peer review is accomplished as the RMS Supervisor reviews all new or renewed licenses and amendments prior to issuance. All licensing actions are signed by the RCB Manager. Complex reviews are performed by the RMS Supervisor and reviewed by the RCB Manager.

Just prior to the review, the RMS Supervisor had identified the need for revising and improving the procedures for terminating licenses. Although the Supervisor was using the guidance recently issued by the Office of Nuclear Material Safety and Safeguards (NMSS) to develop new procedures to ensure proper closeout of terminated licenses, the terminated files still showed some missing documentation as to the ultimate disposition of the radioactive material. The review team found the work to be progressing satisfactorily.

Kentucky's other licensing guides and license conditions were adopted directly from the NRC's. No potentially significant health and safety issue were identified.

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

3.4 Technical Quality of Inspections

The team reviewed the inspection reports, enforcement documentation, and the data base information for 20 materials inspections conducted during the review period. The casework included all of the Commonwealth's materials inspectors and covered a sampling of the higher priority categories of license types as follows: two institutional medical for diagnostic, four institutional medical with brachytherapy and isotope therapy, one institutional medical with an HDR unit, one teletherapy, two nuclear pharmacies, one broad medical, one veterinary, one industrial radiography, one distribution, and three portable gauges. Appendix E provides a list of the inspection cases reviewed in depth with case-specific comments.

The inspection procedures and techniques utilized by Kentucky were reviewed and determined to be consistent with the inspection guidance provided in IMC 2800. All inspections are conducted on an unannounced basis except those instances where notification is necessary because of the geographical location or to obtain a meeting with specific licensee management or individuals.

The inspection report forms were reviewed and found to be consistent with the types of information and data collected under IMC 2800 and 87100 documents. The Commonwealth uses separate supplements to the inspection report form for various classes of license types, such as medical, brachytherapy, pharmaceutical therapy, teletherapy, portable gauges, fixed gauges, field radiography, fixed-facility radiography, well logging, and laboratory type inspections. The reports were reviewed to determine if the reports adequately documented the scope of the licensed program, licensee organization, personnel protection, posting and labeling, control of materials, equipment, use of materials, transfer, and disposal. The reports were also checked to determine if the reports adequately documented operations observed, interview of workers, independent measurements, status of previous noncompliance items, substantiation of all items of noncompliance, and the substance of discussions during exit interviews with management.

For the most part, the review team found that the inspection reports contained only minor discrepancies when compared to Commonwealth internal guidance or standard practice. Two reports needed additional information to fully document the details of the independent measurements and associated results developed during the respective inspections. One report needed additional information to describe the circumstances and details under which a licensee survey meter was determined to be inoperable.

The Section Supervisor reviews and initials all inspection reports and signs all routine enforcement correspondence which enhances the quality of the correspondence to the licensee. Kentucky uses a manual logging system to track inspections performed, status of reports, letters to licensees, responses from licensees, and acknowledgment letters. Inspection data are also placed on computer change forms and sent to a contractor for updating the inspection and licensing data base. No discrepancies were found in the manual system. The desirability, convenience, flexibility, and efficiency of maintaining the data base on the Commonwealth's computers was discussed with the RMS Supervisor.

The files were found to be well organized, orderly, and easily accessed for information. The files were also found to be complete with all license and enforcement documents and correspondence. The enforcement letters and correspondence were determined to be written in appropriate regulatory language and timely in all cases.

The Commonwealth bases their enforcement program primarily upon onsite inspections, informal enforcement conferences and increased inspection frequencies as a means to obtain compliance. When the licensee responds to the notice of violation (NOV), the response is given to the inspector to evaluate the licensee's response, and to draft a reply for the supervisor's review or signature. The use of informal enforcement conferences (verbally requested meeting with licensee to discuss inspection findings and potential enforcement actions) has been an effective tool for the Commonwealth. These conferences are followed by another unannounced inspection to confirm and evaluate the licensee's corrective actions. The review team concluded that the

enforcement policies were effective, and this supervisory review enhanced the quality of the inspection and enforcement documents. Kentucky does not have civil penalty authority. The review team suggests that Kentucky consider obtaining necessary statutory authority to apply civil penalties as an additional enforcement option to supplement their enforcement efforts. The inspectors are also cross trained as license reviewers, which also strengthens the continuity of the regulatory program.

One inspector accompaniment was performed by a review team member during the visit on August 16, 1995. This accompaniment is identified in Appendix E. All of the other inspectors have been accompanied during previous reviews. On the accompaniment, the Commonwealth inspector demonstrated appropriate inspection techniques and knowledge of the regulations. The inspector was well prepared and thorough in the review of the licensees' radiation safety program. Overall, the technical performance of the inspector was satisfactory, and the inspection was adequate to assess radiological health and safety at the licensed facility.

In response to the questionnaire, Kentucky reported that no supervisory inspector accompaniments were performed during 1994; however, three inspectors were accompanied by the RMS Supervisor during 1995. Kentucky further reported that supervisory accompaniments are required for junior staff before they are allowed to perform independent inspections. Kentucky has a policy of annual supervisory accompaniments of all inspectors. The review team considered the high demands placed on supervisory staff during this review period because of the efforts necessary to update regulations, the need to evaluate new devices, issue and amend SS&D registrations and the efforts needed to prevent the development of licensing and inspection backlogs. However, supervisory accompaniments provide management with important insight into the quality of the inspection program. The review team recommends that the Commonwealth maintain its policy of annual supervisory accompaniments of all inspectors.

It was noted that Kentucky has a variety of portable instruments for routine confirmatory surveys and use during incidents and emergency conditions. The instruments were a good mix of low range GM tubes and pancake probes, micro R meters, high range instruments, instrumentation with calibration standards for alpha detection, a neutron rem ball, and a portable multichannel analyzer. Air monitoring equipment is also available. The portable instrument used during the inspector accompaniment was observed to be operational and calibrated. The portable instruments maintained in the office were also observed to be calibrated. Program staff explained that instruments are calibrated at least on an annual basis, and staggered so as to always have instruments calibrated within the calendar quarter for use during industrial radiography inspections.

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

3.5 Response to Incidents and Allegations

In evaluating the effectiveness of the Commonwealth's actions in responding to incidents and allegations, the review team examined the Commonwealth's response to the questionnaire regarding this indicator, reviewed the incidents reported for Kentucky in the "Nuclear Material

Events Database" (NMED) against those contained in the Kentucky files and reviewed the casework of 15 reportable incidents and 6 allegations identified as involving byproduct material. In addition, the review team interviewed the RCB Manager, the RMS Supervisor, and the health physicists assigned to incident response.

Responsibility for initial response and follow up actions to radioactive materials incidents and allegations rests with the RCB. Written procedures require that notifications of incidents be referred to the RMS Supervisor, who will determine the extent of the investigation and/or response. Complex events or those with potential for impacting public safety or likely to involve media attention are referred to the RCB Manager. Review of the files indicated that this approach provided effective response actions and did not delay the response time.

All incident files of reportable incidents involving byproduct material that occurred during the review period were reviewed. The information in NMED agreed with the information in the Kentucky files. These included three misadministrations, three loss of control of material, three damaged devices, two leaking sources, one possible overexposure, one equipment failure, one contamination event, and one byproduct sealed source found in scrap. A list of the incident response case work with comments is included as Appendix F.

For the most part, the correct procedures were followed. In most instances actions were appropriate and timely. The level of effort was typically commensurate with the hazard to the public. Suitable enforcement actions were taken, and almost all items were followed to resolution. There were, however, instances in which improvement was needed.

- C In 2 of 15 cases, the incident report did not document supervisory oversight.
- C In four cases, the report did not document that the incident was closed. In two others, the report did not indicate that the incident was not closed nor did it contain an indication of the reason why it was not closed.
- C In one case, the licensee was not cited for loss of control of the radioactive source or for failure to provide timely notification.
- C After the Owens Illinois Labels incident, the Commonwealth waited 43 days before making an onsite response to a possible leaking source at a general licensee. The Commonwealth indicated that the delay was due to the reorganization of the program and lack of immediate availability of staff to respond to the incident. Without having good reason to believe the general licensee was capable of managing a leaking source, the Commonwealth should have responded sooner to this potentially serious problem. Furthermore, the issue of the license authorization for and approval of procedures utilized by the individual who apparently made an improper leak test at this facility was not adequately resolved.
- C On 11 occasions during the review period the Commonwealth responded to incidents of unidentified unlicensed radioactivity, presuming the source to be naturally occurring and accelerator-produced radioactive material (NARM). The review team believes that

identification of the radioactive isotope involved could lead to a better resolution of these incidents because the source may not always be NARM. The review team recommends that the Commonwealth determine the specific isotope in all incidents rather than assuming the source to be NARM.

In spite of the number of incidents involving NARM radioactive material in Kentucky, especially an increasing number of incidents involving NARM radioactivity in scrap metal, Kentucky has been able to maintain its program for Atomic Energy Act material. In 1995, Kentucky issued 13 Department of Transportation (DOT) exemptions for the return of shipments that were turned away from Kentucky scrap mills due to NARM radioactivity in the scrap. Also, in 1995, four DOT exemptions were issued by other states for return to Kentucky of scrap containing NARM radioactivity. Seventeen potential incidents in 1995 due to NARM radioactivity in scrap metal amounted to approximately twice the number that occurred in 1994.

The response to six of the seven allegations received by the Commonwealth during the review period that involved byproduct radioactive materials were examined in detail. Allegations were responded to promptly with appropriate investigations and follow up actions. Proper procedures were used for the control of information, and the results of the investigation were promptly related to the allegor. No significant problems were observed.

Based on the IMPEP evaluation criteria, the review team recommends that Kentucky's performance with respect to the indicator, Response to Incidents and Allegations, 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) Legislation and Regulations, (2) Sealed Source and Device Evaluation Program, (3) Low-Level Radioactive Waste Disposal Program, and (4) Uranium Recovery Operations. Because Kentucky has no agreement to regulate uranium recovery operations, only the first three performance indicators were applicable to this review.

4.1 Legislation and Regulations

4.1.1 Legislative and Legal Authority

Along with their response to the questionnaire, Kentucky provided the review team with copies of legislation that affects the radiation control program. Kentucky Revised Statutes (KRS) Title XVIII, Chapter 211, names the Cabinet for Human Resources as the radiation control agency of the Commonwealth of Kentucky. (At the time of the review, the Governor was in the process of changing the title of the Cabinet of Human Resources to the Cabinet for Health Services, and it is so designated on the organization charts for this report.) Chapter 211 also authorizes the Cabinet to regulate the registration and licensing of the possession or use of any sources of ionizing or electronic product radiation and the handling and disposal of radioactive waste and to fix fees and charges.

4.1.2 Status and Compatibility of Regulations

All regulations that are required for compatibility that were identified as due or overdue for adoption at the time of the 1994 routine review had been adopted at the time of the April 1994 review visit and had received final NRC review and approval as of August 18, 1995. The Commonwealth regulations were acknowledged to be compatible in correspondence dated March 15, 1996, from Richard L. Bangart, Director, Office of State Programs, to John H. Morse, Secretary, Cabinet for Human Resources.

The Commonwealth regulates a low-level radioactive waste disposal facility licensed prior to NRC's 10 CFR Part 61. This is the only licensed low-level waste disposal facility in Kentucky and is not an operating facility. The Commonwealth requires the licensee to carry out a comprehensive quality assurance program for the licensed activities presently through license tiedown condition. Previously, the Commonwealth had promulgated a rule equivalent to NRC's 10 CFR Part 61. The Commonwealth, however, does not expect to be designated as a host State for a new low-level radioactive waste disposal facility. If Kentucky, in the future, becomes aware of the need to regulate a new low-level radioactive waste disposal facility, the Commonwealth would be expected to put in place all regulations necessary for compatibility. In the interim, however, given the legally binding license condition requirement to conduct a comprehensive quality assurance program, the review team concluded Kentucky does not need to adopt any change to their Part 61 equivalent regulations to maintain compatibility. Therefore, Kentucky will not adopt the following amendment to their regulations equivalent to the following NRC rules:

- ! "Definition of Land Disposal and Waste Site QA Program," 10 CFR Part 61 amendments that became effective on July 22, 1993.

With the following exceptions, Kentucky has adopted all compatibility regulations which will become due through June 1998:

- ! "Timeliness in Decommissioning of Materials Facilities," 10 CFR Parts 30, 40, and 70 amendments (59 FR 36026) that became effective on August 15, 1994, is under review and is expected to become effective by the due date of August 15, 1997.
- ! "Preparation, Transfer for Commercial Distribution and Use of Byproduct Material for Medical Use," 10 CFR Parts 30, 32 and 35 amendments (59 FR 61767, 59 FR 65243, 60 FR 322) that became effective on January 1, 1995, is under review and is expected to become effective by the due date of January 1, 1998.

Kentucky has the following rules under consideration, but has no estimated date for the adoption:

- ! "Radiation Protection Requirements: Amended Definitions and Criteria," 10 CFR Parts 19 and 20 amendments (60 FR 36038) that became effective August 14, 1995.
- ! "Clarification of Decommissioning Funding Requirements," 10 CFR Parts 30, 40, and 70 amendments (60 FR 38235) that became effective November 24, 1995.

- ! "Compatibility with the International Atomic Energy Agency," 10 CFR Part 71 amendment (60 FR 50248) that became effective April 1, 1996.

During this review period, the only two regulations that were required for compatibility which were not adopted within the three-year time frame became effective within six months after the due date. Kentucky strives to meet the three-year compatibility requirement, and has enacted emergency regulations to implement rules sooner if requested to do so by the NRC. The quality management rule (QM), which was enacted as an emergency regulation in January 1994, was one recent example of Kentucky's willingness to cooperate with the NRC.

The review team examined the procedures used in the Kentucky's promulgation process and found the public is offered several opportunities to comment on proposed regulations throughout the process. According to program management, the NRC is provided with drafts of the proposed regulations for comment during the process and any changes suggested by the NRC are incorporated into the final rules.

Based on the IMPEP evaluation criteria, the review team recommends that Kentucky's performance with respect to the indicator, Legislation and Regulations, be found satisfactory.

4.2 Sealed Source and Device Evaluation Program

In evaluating the Commonwealth's SS&D evaluation program, the review team studied the information provided by the questionnaire, reviewed the casework and background information of all certificates of registration issued since the May 13, 1994, review, reviewed new procedures and guidance, and interviewed RCB staff and managers responsible for SS&D evaluations.

At the time of the 1994 review, Kentucky had two major device manufacturers, Ohmart Corporation and Ronan Engineering Company. On March 28, 1996, Ohmart Corporation notified Kentucky that the Kentucky facility would be closed prior to June 1996. Ohmart also stated that all sources had been moved, provided a survey protocol to the Commonwealth, and stated that the final survey was planned for the week of April 29, 1996. Kentucky has scheduled an inspection of the Ohmart facility during the time Ohmart's final survey will be performed. Only one Ohmart device was registered by Kentucky since the 1994 review. Ronan is currently the only device manufacturer in Kentucky and has nine registered devices.

4.2.1 Technical Quality of the Product Evaluation Program

The April 1995 review visit resulted in recommendations for improvement in the Commonwealth's SS&D evaluation program. In response, Kentucky developed an action plan calling for the reassessment of all previously issued device sheets to assure that the files contain all current background information and drawings applicable to the device safety review, including documentation that generally licensed (GL) devices meet the current dose requirements. Although the Commonwealth evaluated new devices during the period, workload demands prevented the reassessment of the previously approved devices. The review team recommends that the RCB continue with their plan to reassess all previously issued SS&D sheets, under their

regulatory jurisdiction to assure that the files contain all current background information and drawings applicable to the device safety review and to verify and document that GL devices meet the current dose requirements.

As noted in the questionnaire, since the previous review, Kentucky has completed one device evaluation and registration for Ohmart (KY-512-D-112-S) and one device evaluation for Ronan.

Following Kentucky's initial evaluation of the Ronan device, the application package, including the Commonwealth's review and proposed deficiency letter, was sent to the NRC Office of State Programs as a technical assistance request (TAR). This TAR was referred to the NRC Division of Industrial and Medical Nuclear Safety (IMNS) on April 12, 1995, and a response from IMNS was provided to Kentucky on May 17, 1995. The comments from IMNS and Kentucky have been provided to Ronan and a response is pending. During the Commonwealth's evaluation of the application, the Commonwealth utilized the guidance obtained during the SS&D Workshop sponsored by NRC in September 1995. Documents in the file confirm that the Commonwealth followed the NRC guidance during their evaluation of the Ronan device. Also, the RCB notified Ronan on March 15, 1995, that Condition 19 of Ronan's license would require the devices to be manufactured in accordance with their quality control program and provided Ronan a copy of the NRC Regulatory Guide 6.9. Ronan provided a Quality Control Manual dated September 28, 1995, to Kentucky. The review of this manual is still pending and the completed registration of the device cannot be completed until the additional information is received from Ronan.

The Ohmart device evaluation was completed and the registration KY-512-D-112-S was issued on January 19, 1996. A review of the file confirms that the Commonwealth utilized the information obtained during the SS&D Workshop and followed the recommended guidance. The registration file contained all correspondence, photographs, engineering drawings, radiation profiles, and results of tests conducted by the applicant.

4.2.2 Technical Staffing and Training

Kentucky has two persons that have the experience and training needed to perform SS&D reviews. Both the RCB Manager and the RMS Supervisor attended the September 1995 SS&D Workshop for training on device reviews and registrations. During interviews, the RCB Manager stated that based upon the Commonwealth's successful review of the Ronan device, which was subsequently reviewed by IMNS under a TAR, and the training received at the workshop, he was confident that Kentucky could perform the needed device reviews. The RCB Manager said that if engineering expertise beyond the Commonwealth's capability was needed, that he had an informal arrangement with the School of Chemical Engineering, University of Kentucky, to assist the program with engineering evaluations of sealed sources and/or devices evaluations as needed. The RCB Manager also stated that he had plans to train additional backup personnel for SS&D reviews, and when this occurs, he would consider sending a person to train at NRC if the option is still available.

The RCB Manager has a Ph.D. in Biochemistry and has teaching experience. He managed the Radiochemistry Laboratory for the Commonwealth for several years. He is also the Commonwealth's consultant on all radiation matters. The RMS Supervisor conducted the current

device evaluations. She is an experienced health physicist who has served several years as supervisor of the materials section and is responsible for evaluating all major or complex license applications. Based upon the previous device reviews performed by the Commonwealth and interviews with the staff, the review team believes that the Commonwealth's SS&D reviewers are qualified to understand and interpret appropriate prototype tests which ensure the integrity of the products under normal, and likely accidental conditions of use; understand and interpret test results; read and understand blueprints and drawings; understand how the devices work and how the safety features operate; understand and apply the appropriate regulations; understand the conditions of use; and understand external dose rates, source activities and nuclide chemical form.

Based upon the additional technical training received by the device reviewers during the SS&D workshop, the experience in performing complete device reviews since the previous review, a reduction in the projected device workload (Ohmart moving to Ohio), and our interviews with the device reviewers, the review team found that the Kentucky staff has adequate qualifications and training for the current and anticipated device reviews.

4.2.3 Evaluation of Defects and Incidents Regarding SS&Ds

The review team determined that there were no incidents or defects regarding SS&Ds as determined from the evaluation of the incident files and responses to the questionnaire from Kentucky.

Based on the IMPEP evaluation criteria, the review team recommends that Kentucky's performance with respect to the indicator, Sealed Source and Device Evaluation Program, be found satisfactory.

4.3 Low-Level Radioactive Waste (LLRW) Disposal Program

Kentucky has no separate low-level radioactive waste (LLRW) disposal program. The Commonwealth and RCB treat the closed radioactive waste burial site at Maxey Flats in the same manner as any other complex specific licensee with all program requirements incorporated as license conditions. The statutes and regulations, including Kentucky's equivalent to 10 CFR 61, apply to the site license.

4.3.1 Introduction

In 1962, the Commonwealth of Kentucky became an Agreement State, and that same year, the Kentucky General Assembly also passed legislation to enable the Commonwealth to purchase lands for the disposal of radioactive waste, to be owned and controlled in perpetuity by the Commonwealth. The Agreement vested in the Commonwealth the authority to license the disposal of LLRW. Also in 1962, a commercial enterprise, Nuclear Engineering Company (NECO)¹, purchased 280 acres of land in Fleming County in an area known as Maxey Flats.

¹Now U S Ecology

NECO submitted an application to the Commonwealth and was issued a license to dispose of radioactive waste at the Maxey Flats Disposal Site (MFDS) in January 1963. A condition of the license was that title to the land be given to the Commonwealth and leased back to NECO for 25 years with conditions in the lease providing for a perpetual care fund. From May 1963 through December 1977, NECO disposed of 4,750,000 cubic feet of LLRW at the site.

In 1977, due to water management problems, the Commonwealth ordered NECO to cease receipt and burial of radioactive waste. Throughout the years since disposal activities ceased in 1977, various stabilization and maintenance activities have been conducted in an effort to control excessive water accumulation. On October 7, 1991, Kentucky was notified by the U.S. Environmental Protection Agency (EPA) that the site has been approved for remedial action under the Comprehensive Environmental Response, Compensation and Liability Act (Superfund).

In a 1978 financial agreement with NECO, Kentucky purchased NECO's license rights and other assets and assumed responsibility for site-related liabilities, thus making the Commonwealth both licensee and regulator, a situation that remains today. Responsibility for the MFDS operations rests within the Natural Resources and Environmental Protection Cabinet (NREPC) while regulatory responsibility for the project's radiation safety program rests with CHS. The review team concluded that this separation of operational and regulatory functions is adequate to avoid conflicts of interest.

The license is still active and authorizes care, maintenance, stabilization and remedial operations as well as onsite and offsite environmental monitoring. The closure plan and consent decree statement of work developed jointly by the Commonwealth, the EPA, and the Potentially Responsible Parties (PRP) were added to the license as Amendment 36 issued October 12, 1995. The site is now on standby awaiting a Federal court order for the use of Superfund monies. The approval is expected to occur some time in 1996.

Meanwhile, maintenance continues, including the placement of a new 10 year plastic cover over the trenches to further inhibit infiltration of water. Environmental monitoring continues on a monthly or more frequent basis by both CHS and NREPC. The sampling includes air, water, soil, vegetation, and direct radiation. Annual monitoring reports are published by the Commonwealth. The latest report concluded that there is no significant off-site migration of radioactive contaminants under present conditions. When the Superfund remediation project begins, it will operate in compliance with the license. CHS will continue to conduct inspections to ensure that the contractor meets the standards set in Kentucky equivalent regulations to 10 CFR Parts 19, 20, 30, 61, and other applicable Kentucky regulations.

4.3.2 Status of Low-Level Radioactive Waste Disposal Inspection

The Commonwealth's frequency of inspection for the MFDS is one year, the same as in IMC 2800 and IMC 2401. However, by a note to file, the inspection frequency has temporarily been extended to two years. This decision was based on the lack of activity at the site and the fact that the few previous items of non-compliance were administrative in nature and had been corrected. However, the last full inspection was conducted in April 1993, making the inspection overdue at

the time of the review. The Commonwealth has committed to conducting an inspection of this license within 30 days of the IMPEP review.

As noted previously, the site is awaiting Superfund remedial work, and there has been very little work going on at the site except for radiation monitoring. Also, monthly site visits are being conducted by the Radiation Environmental Laboratory staff and the RCB Manager. This monthly environmental monitoring protects the worker, as well as the public, from the radioactive material located at MFDS and can be considered partial inspections. The team agrees with the decision to defer the inspection interval to two years. However, the team agrees that the Commonwealth should conduct the routine inspection at the earliest possible time.

In addition, CWS radiation laboratory staff is on-site at least monthly, and the RCB Manager visits the site frequently. When the activities increase under Superfund clean-up, the Commonwealth intends to resume inspections on an annual basis. Review of the files showed that past inspections had been conducted as scheduled and the results transmitted to NREPC within 30 days. All previous inspection reports are on file, but were not reviewed by the team because they were not performed during the review period.

4.3.3 Technical Staffing and Training

The RCB Manager and RMS Supervisor, whose training and experience are discussed in Section 3.2, also serve as the LLRW site reviewers and inspectors. They have many years' experience regulating the MFDS project. The review team believes they are both fully qualified for their responsibilities.

In addition, the CHS Radiation and Environmental Monitoring Laboratory (REML) provides approximately 3.5 FTEs dedicated to MFDS environmental monitoring. Although not directly part of the RMS, this lab is also directed by the RCB Manager. The REML technical staff are all professional chemists who have been trained in radiochemistry, environmental sampling, and analysis and evaluation. The review team examined the training records and educational background of the five laboratory staff members, and found that the qualifications of the technical staff are commensurate with expertise identified as necessary to regulate a low-level radioactive waste disposal facility. Management has developed and implemented a training program for staff. Staff trends that could have an adverse impact on the quality of the program are tracked, analyzed and addressed.

4.3.4 Technical Quality of Licensing Actions

The MFDS license was renewed in its entirety during the review period. In examining the license and background information in the file, the review team found that the license:

- C meets standard licensing practices (activity, location, RSO, regulations, tie-downs, etc.);
- C ties the license to Kentucky regulations, including the equivalent Part 61;

- C limits activity to remedial and monitoring activities;
- C precludes receipt or disposal of waste;
- C limits possession to existing material and addresses possible form changes due to remediation efforts; and
- C requires qualified personnel to be designated in writing before working on site.

The tiedown condition properly cites the renewal application; the radiological protection program revised to meet the new Part 20; radiological procedures, Superfund consent decree Statement of Work; and procurement, receipt, possession and use of laboratory standard sources for onsite use. The license file was complete with all background documents.

Applicable guidance documents such as the NUREGs that support 10 CFR 61 are available and used as needed. Review of certain technical and administrative aspects of the MFDS license and background materials indicated to the team that the review was generally thorough, complete, consistent, and of acceptable technical quality. Health and safety issues, as well as environmental issues, are properly addressed. No potentially significant health and safety issues can be linked to licensing practices.

4.3.5 Technical Quality of Inspections

Inspection and enforcement is handled in the same manner as any Commonwealth licensee. In addition to the laboratory equipment, the RCB possesses a good mix of calibrated instrumentation used at the site, including micro R meters.

The review team examined the environmental monitoring log, and from checking a random sampling of approximately ten of the reports concluded the Commonwealth is gathering sufficient data necessary to evaluate the status of the possible contaminant migration.

Although no full, routine inspection occurred in the review period, past inspection reports show that past inspections adequately covered the scope, completeness, and technical accuracy necessary to determine compliance with regulations, license conditions, and available guidance.

4.3.6 Response to Incidents and Allegations

There were no incidents or allegations pertaining to the Commonwealth's low-level radioactive waste program activities during the review period. The Commonwealth explained to the review team that incidents and allegations relating to the MFDS would be handled in the same manner as those pertaining to any materials licensee.

Based on the IMPEP evaluation criteria for the above five performance areas, the review team recommends that Kentucky's performance with respect to the indicator, Low-level Radioactive Waste Disposal Program, be found satisfactory.

5.0 SUMMARY

As noted in Sections 3 and 4 above, the review team found the Commonwealth's performance with respect to each of the performance indicators to be satisfactory. The MRB concurred in the team's individual and overall recommendations and found that the Kentucky program was adequate to protect public health and safety and was compatible with NRC's regulatory program.

Below is a summary list of recommendations, as mentioned in earlier sections of the report, for action by the Commonwealth.

1. The review team suggests that the Commonwealth consider obtaining necessary statutory authority to apply civil penalties as an additional enforcement option to supplement their enforcement efforts. (Section 3.4)
2. The review team recommends that the Commonwealth maintain its policy of annual supervisory accompaniments of all inspectors. (Section 3.4)
3. The review team recommends that the Commonwealth determine the specific isotope in all incidents rather than assuming the source to be NARM. (Section 3.5)
4. The review team recommends that the RCB continue with their plan to reassess all previously issued SS&D sheets, under their regulatory jurisdiction to assure that the files contain all current background information and drawings applicable to the device safety review and to verify and document that GL devices meet the current dose requirements. This is a recommendation from the 1995 review visit. (Section 4.2)

LIST OF APPENDICES AND ATTACHMENTS

Appendix A	IMPEP Review Team Members
Appendix B	Kentucky Radiation Control Branch Organization Chart
Appendix C	Kentucky's Questionnaire Response
Appendix D	License File Reviews
Appendix E	Inspection File Reviews
Appendix F	Incident File Reviews
Attachment 1	Kentucky's Response to Review Findings

APPENDIX A

IMPEP REVIEW TEAM MEMBERS

Name	Area of Responsibility
Jack Hornor, RIV, WCFO	Team Leader Technical Staffing and Training Legislation and Regulations Low Level Radioactive Waste Program
Richard Woodruff, RII	Status of Materials Inspection Program Technical Quality of Inspections Sealed Source and Device Evaluation Program
David Collins, RII	Technical Quality of Licensing Actions
James McNees, Alabama	Response to Incidents and Allegations

APPENDIX B

KENTUCKY RADIATION CONTROL PROGRAM
ORGANIZATION CHART

Governor - Paul Patton

Office of the Secretary of the Cabinet - Ms. Margaret Greene

Cabinet for Health Services Secretary - John H. Morse

Dept. for Health Services - Rice C. Leach, M.D., Commissioner
(To become Public Health)

Division of Env. Health & Community Safety - Vacant

Radiation Control Program - John A. Volpe, Ph.D.

Radioactive Materials Section - Vicki D. Jeffs
Radiation Materials Licensees and LLW



Vicki D. Jeffs - Radioactive Materials Supervisor
Michael Cleaver - Radioactive Materials Specialist Chief
Sue C. Osborne - Radioactive Materials Specialist Principle
Michael Wilcoxson - Radioactive Materials Specialist Principle

Drug Control

X-Ray

Div. Of Lab Services

Radiation/Env. Monitoring Section
(LabPeople)



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PAUL E. PATTON
GOVERNOR

96 JUL -3 AM 8:31
OSP
JOHN H. MORSE
SECRETARY

June 21, 1996

RICHARD L BANGART DIRECTOR
OFFICE OF STATE PROGRAMS
U S NUCLEAR REGULATORY COMMISSION
WASHINGTON D C 20555

Dear Mr. Bangart:

The Radiation Control Branch, and the Commissioner, Department for Health Services, have reviewed the draft report issued by the review team resulting from the evaluation of our program under the Integrated Materials Performance Evaluation Program (IMPEP). There are a few minor corrections as noted below:

1. Page 1 - The Radiation Control Agency is presently in the Department of Health Services which will become the Department for Public Health in the near future.
2. References are made to the School of Engineering at Kentucky State University on pages 2 and 15 of the report as possibly providing engineering expertise, if required, for evaluations of sealed source/device reviews. The University from which this expertise could possibly be obtained is the University of Kentucky in the School of Chemical Engineering.
3. Page 5 of the draft report indicates the Section Supervisor has a Master's degree. The Section Supervisor does not have a Master's degree.
4. Page 9 and Page 19 suggests the State consider for adoption a policy of annual supervisory accompaniments of all inspectors. This was our policy at the time of the review, however, workload of the section prevented this from being done for the year of 1994, thus one review was conducted at a 20 month interval. Corrective action has been initiated in order to assure annual accompaniments are performed according to schedule.
5. Page 14 states Kentucky is currently evaluating a device for Ronan Engineering Company. The review of this device is completed as stated at the top of page 3. RCB is awaiting a response from Ronan also as stated on page 3.

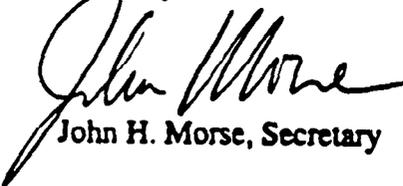
ATTACHMENT 1

Richard Bangart
Page Two
June 21, 1996

6. Page 15 states the RCB Manager has a Ph.D. in Radiochemistry. His degree is in Biochemistry.
7. Page 17, Item 4.3.3 Technical Staffing and Training, states both the RCB Manager and RMS Supervisor "have taken all NRC special topics courses related to LLRW." Neither the RCB Manager nor the RMS Supervisor have attended LLRW special topics courses, although both are well trained and have attended other NRC courses.
8. The organizational chart also had some errors. A corrected chart is attached.

The Cabinet appreciates the IMPEP team professional review of our program. Their evaluation and critique has provided a valuable service to the Commonwealth in our efforts to protect health and safety. If you have questions, feel free to contact program staff.

Sincerely,



John H. Morse, Secretary

Attachment

c: Rice C. Leach, M.D.
John A. Volpe, Ph.D.

Governor - Paul Patton

Office of the Secretary of the Cabinet - Ms. Margaret Greene

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