



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA STREET, N.W., SUITE 2900  
ATLANTA, GEORGIA 30323-0199

*Josee - FYI  
Paul*

November 8, 1996

*Various  
Licenses*

MEMORANDUM TO: Donald A. Cool, Director  
Division of Industrial and Medical  
Nuclear Safety  
Office of Nuclear Material Safety  
and Safeguards

FROM: *for* Bruce S. Mallett, Director *B.S. Mallett*  
Division of Nuclear Materials Safety

SUBJECT: STATUS REPORT OF REGION II REVIEW OF OAK RIDGE NATIONAL  
LABORATORY (ORNL) LIST OF POTENTIALLY CONTAMINATED SITES

The quarterly status reports for those Region II sites contained on the ORNL list of formerly licensed sites identified as potentially contaminated are contained in Attachments 1 through 4. The status reports for those sites with an ORNL final score greater than 300 which remain open are in Attachment 1 and those with a score from 5 to 300 which Region II has reviewed and remain open are listed in Attachment 2. The status reports for those sites which are recommended for deletion are listed in Attachment 3. The sealed source files which have been reviewed and are recommended for deletion are listed in Attachment 4. The information required for the Monthly Information Status Report is in Attachment 5. A tabular summary of all files assigned to Region II is in Attachment 6.

If you have any questions regarding these reports or our evaluations, please contact Mr. Jay L. Henson of my staff at (404) 331-0344.

- Attachments:
- (1) Reports for sites >300 (remain open)
  - (2) Reports for sites <300 (remain open)
  - (3) Reports for sites <300 (recommend deletion)
  - (4) Sealed Sources (recommend deletion)
  - (5) Monthly Information Status Report
  - (6) Tabular summary for all Region II sites

STATUS REPORTS FOR SITES WITH ORNL SCORE >300

(Remain In Open Status)

SNM-00724 Union Carbide Corporation

Attachment 1

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 070-00784

License No. SNM-00724

Licensee Name: Union Carbide Corporation

Site Name: Carbon Products Division

Site Address: 3 miles south of Lawrenceburg, TN

City: Lawrenceburg State: TN Zip: 38464

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 15,456

Background

- \* On August 26, 1963, Union Carbide-Lawrenceburg was issued an SNM license authorizing possession of up to 500 grams of fully-enriched (<94%) uranium for testing of equipment and processes in their Lawrenceburg Fuel Development Facility.
- \* On May 22, 1964, the license was amended to authorize possession of 150 kilograms of U235 to make graphite-coated uranium-thorium carbide particles and graphite-matrix fuel elements.
- \* The possession limit was increased to 475 kg. on June 12, 1964.
- \* On December 6, 1964, a capsule containing 93% enriched uranium exploded in a furnace used to convert uranium oxide to uranium dicarbide. One additional capsule ruptured after being ejected from the furnace by the explosion. The two ruptured capsules contained 10.9 kg. of uranium. The licensee's description of the cleanup and associated sampling/monitoring performed after the incident does not clearly state the quantity of material that was recovered from the ruptured capsules. Soil samples were taken outside the fence around the facility, but there is no indication that soil samples were taken within the restricted area.
- \* Liquid wastes containing "small amounts" (undefined) of non-recoverable licensed material were piped to two settling basins after being fluorometrically measured. Daily samples were also taken of liquid exiting the basin prior to entering Shoal Creek.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Union Carbide Corporation  
Lawrenceburg, TN

License No. SNM-724  
Docket No. 070-00784

- \* By letter dated February 4, 1974, the licensee submitted closeout survey information and requested that License No. SNM-724 be terminated and the facility be released for unrestricted use. (NOTE: The submitted survey does not include soil or settling basin sampling.)
- \* In a March 15, 1974 memo, the Chief, Fuel Fabrication and Reprocessing Branch, AEC, stated that the submitted survey appeared to meet AEC guidelines for decontamination of facilities prior to release for unrestricted use, but desired that Region II perform a confirmatory survey.
- \* On April 5, 1974, Region II performed a closeout inspection which was documented in Inspection Report 70-784/74-1. Region II recommended that the license be terminated and the facility released for unrestricted use. (NOTE: The report does not include soil or settling basin sampling.)
- \* By AEC letter dated June 4, 1974, License No. SNM-724 was terminated and the facility released for unrestricted use.

Assessment

Region II evaluated the available survey data to determine if the information is sufficient to conclude that the building meets existing guidelines for unrestricted use. Region II determined that sampling of the soil in the former restricted area as well as the settling basins should be performed.

Union Carbide (UCAR) submitted a survey/sampling plan on November 11, 1994. Region II reviewed the plan and sent comments back to UCAR on January 12, 1995. UCAR expects to submit a revised sample plan in April 1995.

UCAR submitted their revised sampling plan in a letter dated April 20, 1995. Region II personnel reviewed the plan and prepared a response which included comments regarding some changes which must be made to the plan before it could be approved. The Region II letter to UCAR was forwarded to the State of Tennessee for their review and comment on May 31, 1995. Their comments were forwarded to Region II on June 18, 1995, and are under review. Region II will send a letter to UCAR with comments regarding the revised sampling plan in July, 1995.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Union Carbide Corporation  
Lawrenceburg, TN

License No. SNM-724  
Docket No. 070-00784

Assessment

Region II's comments to the UCAR sampling plan were forwarded to UCAR in a letter dated August 3, 1995. UCAR's response to Region II's comments was received on October 26, 1995. Region II is reviewing this response and expects to complete the review by November 3, 1995.

UCAR response to comments reviewed and RII approved plan November 1995. Licensee contacted on February 5, 1996, for report on current status. Licensee has completed contract for survey performed in accordance with decommissioning plan. Survey is tentatively scheduled to begin in the second calendar quarter of 1996.

UCAR began the facility survey in April, 1996. During the week of April 22-26, 1996, Region II staff observed the sampling of the sediment and soil from the bottom of the two settling ponds and obtained split samples from some of the sampling locations for analysis by ORISE. UCAR expects to complete the survey in June, 1996. Region II personnel will conduct inspections of the decommissioning effort and perform some confirmatory surveys prior to completion of the survey.

A Region II inspector conducted an inspection in June, 1996, at the UCAR facility while the UCAR survey contractor obtained core soil samples around the facility and performed surveys of the upper walls and ceiling in the High Bay end of Building 10. UCAR now expects to complete its survey by the end of August, 1996, and hopes to submit a final report by the end of September, 1996.

In August, 1996, ORISE informed RII that two of the soil samples obtained during the June, 1996, inspection exceeded the release criteria. RII informed UCAR of this information. UCAR received its contractor's survey report in September and is reviewing the report prior to submission to NRC. UCAR now expects to submit their report in November, 1996.

STATUS REPORTS FOR SITES REVIEWED WITH SCORES <300

(REMAIN IN OPEN STATUS)

1. SUB-00081 Homer Laughlin China Co.
2. 16-00380-03 Army Medical Research Center
3. STB-00058 Du Pont
4. C-04327 Fostoria Glass Company  
SUC-00628
5. 45-10085-03 Roanoke College

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-01957

License No. SUB-00081

Licensee Name: Homer Laughlin China Company

Site Name: Homer Laughlin China Company

Site Address: \_\_\_\_\_  
\_\_\_\_\_

City: Newell State: WV Zip: 26050-1299

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 115

Background

- \* In February, 1959, the Homer Laughlin China Company was issued Source Material License No. C-4475. This license authorized possession of 100,000 pounds of source material for use in manufacturing glazed ceramic tableware (glaze to contain not more than 20% uranium).
- \* In February, 1961, this license was renewed and the license number was changed to SUB-00081.
- \* Records indicate that licensed activities were performed in Plant No. 4 and materials were stored in a vault adjacent to the dispensary at Plant No. 8. Records also indicate that the rinse water from washing equipment used to transport uranium glaze entered the city sewer system and in some cases was washed into a storm drain that emptied directly into the Ohio River. Inspection records indicate that these effluents were estimated to be approximately 40% of the regulatory limits.
- \* In a letter dated February 28, 1972 Homer Laughlin China (HLC) requested termination of their license and stated that all remaining licensed materials had been returned to their supplier. On March 29, 1972, the AEC terminated the license.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Homer Laughlin China Company  
Newell, WV

License No. SUB-00081  
Docket No. 040-01957

- \* In August, 1994, the former licensee discovered that it possessed approximately 500 pounds of uranium oxide ( $U_3O_8$ ). Subsequent to this discovery, the licensee hired a contractor to survey areas where licensed materials were used and stored. Several areas of significant contamination were discovered during this characterization survey. HLC sent the results of this survey to Region II on September 28, 1994.
- \* On November 4, 1994, Region II issued a Confirmatory Action Letter (CAL) to HLC to ensure that the uranium oxide was properly stored and secured and that adequate control measures were implemented to protect personnel from the contamination discovered in the facility. On November 17, 1994, a Region II inspector visited the site to determine if HLC had implemented adequate protective measures. HLC had secured the material and the contamination areas as required by the CAL.
- \* On January 5, 1994, HLC submitted their decommissioning plan for the facility. On January 9, 1994, Region II forwarded comments on the plan to HLC. HLC submitted a revised plan on January 10 and Region II approved the plan on January 12.
- \* HLC and its decommissioning contractor began decommissioning effort after approval of the plan. The contractor has completed the decontamination of the majority of the facility and is currently working to complete decontamination of some equipment. HLC and its contractor are having some difficulty in finding an acceptable means to dispose of the waste and bulk material.

Assessment

Region II will continue to monitor HLC's progress in decommissioning this facility. A confirmatory survey will be scheduled upon completion of HLC's decommissioning effort and review of their final survey report.

HLC's efforts to decontaminate/decommission their facility continues. Most of the building surfaces have been decontaminated, but some contaminated equipment remains to be removed and either decontaminated or disposed as radioactive waste. Region II has visited the site on two occasions to survey floor areas in some currently operational areas which HLC needed to have released for operational safety reasons. Based upon the Region II surveys, these floor surfaces were determined to not meet the free release criteria and were not approved for release for unrestricted use. HLC and their contractor, Applied Health Physics, are evaluating the conditions which resulted in these areas not meeting the release criteria. Region II will continue to monitor HLC's decommissioning effort.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Homer Laughlin China Company  
Newell, WV

License No. SUB-00081  
Docket No. 040-01957

Assessment

In a letter dated August 1, 1995, HLC stated that they had completed their decontamination and decommissioning efforts, but had some areas which could not be remediated to the current criteria for release for unrestricted use. HLC enclosed a risk analysis report with the letter with a request that the NRC review the report for the purpose of approving a variance on release of specified equipment and areas from the current release criteria. Region II has completed a preliminary review of the documents submitted by HLC and requested some additional information before a final review is completed. Once this additional information is received, the request will be forwarded to NMSS via a TAR for review and approval.

The HLC request was forwarded for review in a TAR on November 1, 1995. DLWM personnel expect to reply to the TAR by February 16, 1996. From a preliminary review, DLWM expects to have additional questions for HLC to answer before a final decision is rendered.

Region II personnel performed a survey of some floor areas within the HLC facility in December, 1995. The licensee had requested a release survey of some floor areas in a busy area of the facility so that the floors could be repaired. The licensee was concerned about personnel injuring themselves when trying to walk over these floor areas. As a result of this survey, these areas were declared suitable for release for unrestricted use and the licensee initiated repairs to the floors.

NMSS responded to the TAR in a letter dated March 22, 1996. In the TAR response, NMSS requested that HLC respond to fifteen comments before a decision is made regarding the approval of alternate unrestricted use limits for surface contamination. Region II forwarded the comments to HLC in a letter dated April 5, 1996. In a phone call on May 13, 1996, the HLC contractor reported that he is working on a response to the comments and should complete the response by June, 1996.

HLC was contacted on August 6, 1996, to determine the status on its response to the April 5, 1996 letter. Due to financial concerns, HLC has not completed their response. RII staff have scheduled an inspection for August 13, to review the status of the facility and the decommissioning effort.

RII staff conducted an inspection at HLC on August 13, 1996. HLC had not performed any further decommissioning pending resolution of its request for alternate release criteria. HLC intends to respond to the RII April letter regarding this request by November, 1996.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-01746

License No. 16-00380-03

Licensee Name: Department of the Army

Site Name: Medical Research Laboratory

Site Address: \_\_\_\_\_

City: Ft. Knox State: KY Zip: 40121-5520

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 31

Background

- \* In January, 1957, the U.S. Army Medical Research Laboratory (USAMRL) was issued Byproduct Material License No. 16-00380-03 which authorized possession of up to 1 Ci of any byproduct material from Atomic Nos. 3 to 83, except Sr-90, Co-60 and Tm-170, in any form for research and development purposes. It does not appear that the licensee ever possessed quantities approaching the 1 Ci limit for any material authorized.
- \* In later years, the license was amended to limit the possession to 50 mCi of any form of any byproduct material with Atomic Nos. 3-83, inclusive, possession of I-131 in any form to 500 mCi, and possession of H-3 in any form to 500 mCi. These materials were used for in vitro and in vivo (animal) research and development activities. Materials were used and/or stored in ten buildings during the life of the license.
- \* In August, 1977, the licensee requested termination of the license and on November 16, 1977, the NRC terminated the license.
- \* Records indicated that materials were transferred to a waste disposal firm for disposal or sent to the Letterman Army Institute, San Francisco, California. The USAMRL activity was relocated to this facility.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Department of the Army  
Medical Research Laboratory  
Ft. Knox, KY

License No. 16-00380-03  
Docket No. 030-01746

- \* The U.S. Army Environmental Hygiene Agency (USAEHA) conducted surveys at USARML in April, 1974 and in April, 1977, to demonstrate that the facilities at Ft Knox could be released for unrestricted use. The NRC conducted a confirmatory survey in September, 1977. No contamination above the criteria for release for unrestricted use was detected during any of the above surveys. Surveys included scans with survey meters and contamination smears.
- \* In February, 1994, the U.S. Army Office of the Surgeon General requested that Region II provide guidance on how to proceed with the demolition of one of the buildings used (1025) for licensed activities. The Army had the building surveyed and on September 29, 1994, a Region II inspector conducted a confirmatory survey of the facility. The building was found to meet the criteria for unrestricted use and was subsequently demolished.
- \* On January 23, 1995, The U.S. Army Medical Department Activity at Ft. Knox sent a letter to Region II describing their proposal regarding any further surveys and disposition of the remaining buildings that were used under this terminated license. On February 27, 1995, Region II responded to the Army's January 23 letter with comments regarding their proposal.

Assessment

It appears that the final survey performed by USAEHA in 1977 and the confirmatory survey performed by the NRC thereafter were adequate at the time to demonstrate that the facilities met the criteria for release for unrestricted use. However, to demonstrate this compliance based upon current guidance, the Army intends to conduct some additional surveys of some of the remaining facilities (2nd quarter, CY95). Region II will continue to monitor the Army's progress. Region II will schedule confirmatory surveys of these facilities after review of the Army's final survey report.

Ft. Knox personnel forwarded a revised final survey plan for review and approval by Region II in a letter dated June 9, 1995. Region II personnel will complete their review of this plan in July, 1995.

Region II completed its review of the survey and decommissioning plan and forwarded its approval to Fort Knox personnel in a letter dated July 27, 1995. Army personnel are tentatively scheduled to begin the survey in early FY 96.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Department of the Army  
Medical Research Laboratory  
Ft. Knox, KY

License No. 16-00380-03  
Docket No. 030-01746

Survey delayed due to reorganization of Army survey agency. Survey is now tentatively scheduled for the second calendar quarter of 1996. Region II personnel plan to be present during the survey to perform confirmatory measurements as the survey progresses.

Army survey team performed survey during first week in April, 1996. Army personnel failed to notify Region II staff that survey would be performed at that time, therefore no Region II personnel were present during the survey. Army personnel reported in a telephone call on May 14, 1996, that no levels of contamination above the criteria for release for unrestricted use were detected during the survey. The Ft. Knox licensee representative will forward the report of the survey results as soon as it is received from the Army survey agency. Region II will perform confirmatory survey after receipt and review of the Army survey report.

The final survey report is under review by Army staff and is expected to be sent to RII by the end of August, 1996. **RII received the report in August and has scheduled a confirmatory survey for late October.**

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-06213

License No. STB-00058

Licensee Name: E.I. DuPont de Nemours and Co., Inc.

Site Name: Belle Works

Site Address: 901 West Dupont Avenue

City: Belle State: WV Zip: 25015

Regional Contact: Jay L. Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 37

Background

- \* License No. STB-00058 was issued on January 30, 1961 for the possession of 1,000 pounds of thorium for use in dispersions of thorium oxides in metal. The license was amended in January, 1962, and the possession limit was changed to 500 pounds.
- \* In its December, 1960 application, the licensee described the source material as a thorium salt, probably thorium nitrate, in a crystal form containing 33 to 48 percent thorium by weight. The facility where the source material would be used was described as a restricted area of dimensions 40 feet by 100 feet with a steel frame and sheet metal building approximately 15 feet by 50 feet. Processing equipment contained in the building included tanks for dissolving, mixing and reacting the thorium salts with metal salts, a plate and frame filter press, a combination drying and calcining oven, and a controlled atmosphere furnace. A sink and other laboratory type of equipment was also employed. A hood was also used when source material was handled manually and for exhausting the calcining furnace. The exhaust from the hood was 15 feet above ground and the licensee projected that 18 grams of thorium would be exhausted each day of operations. After handling of the dry source material in the hood, it was mixed with water to limit airborne contamination. The licensee stated he would use air samplers to monitor airborne material and conduct radiation surveys with a portable survey instrument and obtain wipes in work areas to monitor removable contamination. To illustrate its experience with handling hazardous materials, the licensee stated that it had many years of experience in producing catalysts containing chromium compounds which are strongly toxic.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

E. I. DuPont de Nemours and Co., Inc.  
Belle Works  
Belle, WV

License No. STB-00058  
Docket No. 040-06213

- \* The methods of disposal of source material included burial and discharge to plant sewage and water effluent stream. As described in the license application, all solid or semisolid thorium-containing materials would be accumulated, stored and periodically buried. The burial would be in the plant dump which was located remotely from the plant and was separated from inhabited areas by a nest of mountains. All solutions containing thorium would be treated chemically to precipitate as much of the thorium as possible before discarding them. The restricted area was located adjacent to one of the plant's water outfalls which had a minimum flow rate of 20,000 gallons per minute. The resulting concentration of thorium was stated to be below detectable limits and several orders of magnitude below those specified in AEC regulations (Part 20).
- \* An AEC inspector found no items of noncompliance during an inspection conducted on April 23, 1963. No other details of the inspection were in the retired docket file.
- \* The license expired on January 31, 1965. In a memo dated June 6, 1965, an AEC employee stated that he had contacted the licensee on May 27, 1965, and was informed that the licensee had not procured or used thorium since the last inspection (date of inspection not identified). The licensee had 0.43 pounds of thorium which it possessed under a general license since the specific license expired. The retired docket file does not contain any information on the final disposition of the material or surveys performed by either the licensee or the AEC after the license expired and was terminated.

Assessment

RII personnel performed an inspection at the Du Pont facility on August 12, 1996 (Inspection Report No. STB-00058/96-01). The inspector found that Building 202, identified in the former license as the facility where licensed activities were conducted, no longer existed. The building had been demolished several years prior to this inspection, and a much larger facility, Building 291, had been erected at the site. Based upon his observations of the site and discussions with licensee personnel, the inspector determined that no original structure remained from Building 202, and that the construction of Building 291 had apparently included the entire removal of Building 202, and excavation of the area where Building 202 had existed to allow construction of the foundation for Building 291.

The inspector also determined that, as stated in documents contained in the terminated license docket file, the licensee had buried thorium contaminated waste at a site across from the main facility. A licensee document dated October 4, 1961, indicated only three drums of contaminated waste (two 55 gallon and one 30 gallon) were buried at the site on September 29, 1961. This document also stated that the material was buried under six feet of earth and that the radiation levels measured on the surface of the drums prior to burial ranged from 0.5 to 0.7 millirem per hour. The licensee's current radiation safety staff were aware of the site. The inspector visited the burial site and observed that the licensee controlled access to this area and that the area was posted with a sign indicating that radioactive material was

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

E. I. DuPont de Nemours and Co., Inc.  
Belle Works  
Belle, WV

License No. STB-00058  
Docket No. 040-06213

buried at the site. The licensee's staff stated that as much as sixteen more feet of earth cover had been added to the area since the material was first buried. The licensee periodically inspected the site, but did not perform any radiological surveys in the area or analyze the groundwater obtained from monitoring wells in the area for radioactive material.

It appears that no further investigation is required regarding the facility where licensed material was used under this former license since that facility has been demolished. However, the site will remain in an "open" status until the Draft Branch Technical Position on Screening Methodology for Assessing Prior Land Burials of Radioactive Waste Authorized Under Former 10 CFR 20.304 and 20.302 is published in final form. At that time the licensee will be required apply the screening methodology to the burial site and take action as warranted by this document.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-03366

License No. C-04327  
SUC-00628

Licensee Name: Fostoria Glass Company

Site Name: \_\_\_\_\_

Site Address: Corner of First Street and Fostoria Avenue

City: Moundsville State: WV Zip: 26041

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 15

Background

- \* License No. C-04327 was issued on October 2, 1958, for the possession of 850 pounds of uranium (depleted) in uranium compounds for use as a coloring agent in glass products (tableware and artware). Amendment No. 1 to this license was issued on August 25, 1959 and authorized the possession of 1700 pounds of uranium in uranium compounds for use as a coloring agent in the manufacture of ornamental glassware containing not more than 10% uranium.
- \* In a letter dated October 18, 1960, the licensee stated that it had discontinued the use of uranium compounds in July, 1960, and that it currently possessed 328 pounds of depleted uranium. The licensee further stated that it was not sure if it would use this material in the future, but wanted to retain the license in the event it may need it. The possession limit was reduced to 328 pounds in an amendment dated October 20, 1960.
- \* License No. C-04327 expired on October 31, 1961, while the licensee still possessed source material. The licensee applied for another license, requesting authorization for possession only, and was issued License No. SUC-00628 on July 19, 1962. This license authorized the possession of 328 pounds of uranium for storage only. This storage only license was renewed in July, 1965 and its expiration was extended to July 31, 1969, in a license issued on July 22, 1968.
- \* The licensee requested termination of its license in a letter dated June 19, 1969. In this letter, the licensee stated that it had disposed of all material (328 pounds) by burial as provided in 20.304.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Fostoria Glass Company  
Moundsville, WV

License No. SUC-00628  
Docket No. 040-03366

- \* In its original license application, the licensee described the manufacturing process as including weighing out the licensed material in appropriate batch sizes along with other glass components in a well ventilated, hooded area, placing this material in a mixer, then a batch wagon for transfer to the site where it would be placed in a glass pot and melted into glass. The glass was then drawn by hand and formed into glassware. The licensee stated that the glassware would contain from 0.25 to 2.0 percent depleted uranium oxide depending upon the type of color which was produced. All waste product would be remelted for further use or would be buried at the dump. The licensee also stated that it had experience with normal uranium products before 1942 and based upon this experience, it expected little uranium loss in any of its operations.
- \* On August 27, 1959, and AEC inspector conducted an inspection of the licensee's operations. He noted that the weighing room was located in the west end of the plant building and that the Ransome Dry mixer was located in the basement almost directly below the weighing room. The inspector also noted that the licensee was performing radiation surveys with a CDV-700 survey meter borrowed from the Moundsville High School, and that the records of these surveys showed that no external radiation in excess of 1 mR/hr existed in any of the use and storage areas. The licensee had received 900 pounds of licensed material since October, 1958 and had 225 pounds of licensed material on hand during the inspection. A second inspection was performed in November, 1962, and the inspector noted that no item of noncompliance was found.
- \* The retired docket file contains no information describing a close-out survey by either the licensee or AEC at the time of license termination.

Assessment

Fostoria Glass Company (FGC) was purchased by the Lancaster Colony Corporation in 1983, and production at the facility ceased in 1986. The facility was closed shortly after production ceased and an environmental remediation survey of the facility was completed in 1995. Personnel involved in this survey were apparently unaware of the use of radioactive materials at this site and did not perform any radiological surveys. Personnel performing this survey reported that they did not find any evidence of a burial site on the premises.

On August 14, 1996, a RII inspector performed a scoping survey at the site. The inspector found that the entire facility, including the building designated as the Batch Plant, where depleted uranium was used and stored, was difficult to survey because of the current facility conditions. However, the inspector did identify areas of fixed contamination in and around the Weigh Room on the second floor, in the southwest corner of the Batch Plant, that exceeded the NRC criteria for release of the facility for unrestricted use. The inspector concluded that a more comprehensive survey of the facility would be required to properly characterize the site and determine if any other areas within the facility were contaminated above the release criteria.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Fostoria Glass Company  
Moundsville, WV

License No. SUC-00628  
Docket No. 040-03366

The inspector attempted to determine the location of the "dump" referenced in documents contained in the retired docket file where the former licensee disposed of 328 pounds of depleted uranium. The inspector did not find any physical evidence of a dump at the facility site. The inspector obtained a sample from each of the three ground water monitoring wells at the facility. A preliminary analysis of the samples indicated that the types and amount of radioactive material present in the ground water are from naturally occurring materials typically present in ground water.

In discussions with employees of the West Virginia Division of Environmental Protection, the inspector determined that it was possible that the "dump" referenced in the retired docket file was the Moundsville municipal dump known as the Angel Flats Dump. The inspector visited the Angel Flats site and found evidence that FGC had disposed of waste glass at the site, but could not determine if the depleted uranium had been buried at the site.

The inspectors findings were forwarded to Lancaster Colony Corporation in Inspection Report No. SUC-00628/96-01 on October 10, 1996. The cover letter to this report included a request that Lancaster Colony notify RII of the actions it will take to decontaminate and decommission the former FGC site so that it meets the release criteria. In discussions with a Lancaster Colony representative, the inspector was informed that Lancaster Colony may not accept responsibility for the site and that its ownership of the site is questionable. Lancaster Colony will address this issue in their response to the report.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-09859

License No. 45-10085-03

Licensee Name: Roanoke College

Site Name: Physical Science and Life Science Buildings

Site Address: North College Avenue

City: Salem State: VA Zip: 24153

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Ranking: 66

Background

- \* In June, 1974, Roanoke College was issued Byproduct Material License 45-10085-03 authorizing the possession of the following:
  - (1) any byproduct material between Atomic Nos. 3 and 83, inclusive, in any form, with a possession limit of 10 mCi of each, inclusive, except 1 mCi each of Strontium 90 and Iodine 131, and a total possession limit of 100 mCi for all materials
  - (2) Americium 241 as sealed sources or electroplated discs with an activity limit of 1 microcurie
  - (3) Cobalt 60 as foils with an activity limit of 30 mCiThe authorized use for (1) and (2) was instruction and laboratory research and for (3) was experiments in surface physics and sputtering.
- \* In December, 1979, this license was amended to a storage only license pending disposition of the licensed materials.
- \* A NRC-314 form dated November 3, 1981, indicated that all materials procured and/or possessed under this license were transferred to the Virginia Polytechnic Institute and State University under their license (45-09475-30). The license was not formally terminated but was simply allowed to expire in July, 1981. There are no records of a final survey performed by the licensee of the facilities where licensed activities were conducted in the docket file and no indication that the NRC performed a closeout survey.
- \* In August, 1985, Roanoke College was issued Byproduct Material License No. 45-10085-04 which authorized them to possess 1 mCi of Carbon 14 in any form for use in laboratory research studies. In December, 1986, their license was amended to authorize a maximum possession limit of 2 mCi. This license is currently active.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Roanoke College  
Salem, VA

License No. 45-10085-03  
Docket No. 030-09859

- \* The authorized locations of use under the 45-10085-03 license compared to those locations authorized under License No. 45-10085-04 are listed below:

<u>Building</u>	<u>45-10085-03</u>	<u>45-10085-04</u>
Physical Science	176, 177A, 177B, 178, 179  266B, 266C, 266D  462	266B, 266C, 266D
Life Sciences	215, 217  410	215, 217, 201, 201A, 201B, 217A, 218E  410, 409A, 410A

In a December, 1986, amendment to the current license (45-10085-04), the licensee deleted rooms 266C and 266D in the Physical Science Building and room 409A in the Life Sciences building as areas of use.

Assessment

Many of the facilities where licensed activities were performed under License No. 45-10085-03 continue to be utilized for similar activities authorized under the current license (45-10085-04). In a December 4, 1979, letter contained in the 45-10085-03 docket file, the licensee stated that it would submit a report of the surveys conducted in the areas where materials have been stored when all materials were disposed or transferred. This report, if submitted, is not in the docket file.

Region II will send Roanoke College a letter requesting that they send copies of any reports of final surveys performed in those facilities where licensed activities were performed under License No. 45-10085-03 to demonstrate that when this license expired, all facilities met the criteria for unrestricted release. If Roanoke College cannot produce these reports, then Region II will request that Roanoke College perform these surveys in those facilities where licensed activities were performed under License No. 45-10085-03, excluding those facilities where licensed activities are currently performed under License No. 45-10085-04. Copies of the Region II and Roanoke College correspondence regarding this matter will be placed in the 45-10085-04 docket file for reference regarding the future decommissioning of these facilities.

Region II forwarded a letter to Roanoke College on March 30, 1995, requesting information on the radiological status of those facilities used under this terminated license which are not being used under their current license (License No. 45-10085-04). As of June 30, 1995, Roanoke College has not responded to this letter. After several attempts, on October 25, 1995, Region II personnel were able to telephonically reach an individual at Roanoke College who will respond to the letter.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Roanoke College  
Salem, VA

License No. 45-10085-03  
Docket No. 030-09859

Licensee personnel were contacted on February 6, 1996, for update on status. Licensee has contacted former employees who used material under the terminated license. Licensee is waiting for information from one user before determining what further action to take. Licensee is considering performing additional surveys of formerly utilized laboratories.

In a telephone conversation on May 8, 1996, licensee personnel reported that they had completed their investigation into the status of the former use areas and would submit a report of their findings by the end of the month. They stated that based upon their investigation, only short half-life materials was used in the areas in question.

As of August 6, 1996, the report had not been received. Mr. Jay Henson of the RII staff contacted the licensee on August 6 to determine the status of the response. Licensee staff stated that they would try to submit a response by the end of August. RII staff will contact the licensee at that time to verify status of response.

In a letter dated August 14, 1996, the licensee described its efforts to determine the radiological status of those rooms under the former license (45-10085-03) which are not used under their current license (45-10085-04). The licensee was able to contact the primary authorized user under the former license. This individual stated that: (1) all of the sources were produced by neutron activation and used in sputtering experiments; (2) all of the sources were initially less than one millicurie in activity; (3) all sources had relatively short half-lives (longest lived was cobalt-57, 270 days). The licensee stated it had been more than 28 half-lives since the material was last used under the former license.

The licensee did not provide any survey documentation that supports its conclusion that these rooms meet the release for unrestricted use criteria. Therefore, Region II will perform a survey of these rooms before rendering a final decision on release of the rooms for unrestricted use.

STATUS REPORTS FOR SITES WITH SCORES <300

(RECOMMENDED FOR DELETION)

C-04345      Wheeling Tile Company

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-03399

License No. C-04345

Licensee Name: Wheeling Tile Company

Site Name: \_\_\_\_\_

Site Address: 3107 Eoff Street

City: Wheeling

State: WV

Zip: \_\_\_\_\_

Regional Contact: Jay L. Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 7

Background

- \* License No. C-04345 was issued on October 10, 1958, for the possession of 2,000 pounds of depleted uranium for use as a coloring agent in glazes for ceramic manufacture.
- \* In its application, the licensee described the facilities and processes involved in the production and use of the glaze containing the depleted uranium. Operations included weighing, milling in a wet ball mill, transfer of the glaze to a holding tank, and removal of increments of the glaze slurry for application to ceramic products by either hand dipping or spraying. The spraying would be conducted in a well ventilated spray hood equipped with a scrubber for recovering glaze entrained in the hood exhaust. The ceramic ware would be dried, loaded into kiln setters, fired in a kiln, unloaded, inspected and packaged. The licensee stated that periodic surveys with a portable survey instrument would be performed to determine the level of radiation at different points in the storage and processing areas. The licensee also indicated that traces of uranium from washing out of equipment would be well diluted with waster prior to discharging to the sewer and that samples of effluents would be taken and monitored. The licensee stated that its experience prior to 1942 with normal uranium products showed that little uranium was lost in any of its operations.
- \* The AEC planned to conduct an inspection of the licensee in December, 1958, but the licensee informed the AEC in November, 1958, the it had not obtained or used any depleted uranium under the license and had postponed its use of this material for a time.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Wheeling Tile Company  
3107 Eoff Street  
Wheeling, WV

License No. C-04345  
Docket No.

- \* In June, 1959, the AEC issued an order amending the license to limit the content of uranium in glazes for ceramic tableware to twenty percent. The order also authorized the licensee to produce ceramic tiles glazed with uranium for the purpose of obtaining experimental data regarding the radiation levels associated therewith. It also defined ceramic tile to mean any piece of fired clay, stone, concrete or other material used in the construction or ornamentation of walls, partitions, floors, drains, or similar items; or in the construction or ornamentation of articles of furniture.
- \* The retired docket file does not contain any information on the final disposition of the material, surveys performed by either the licensee or the AEC when the license was terminated or any document that indicates when the license was terminated. The license expiration date was October 31, 1960.

Assessment

RII contacted the current owner of the site where the Wheeling Tile Co. (WTC) was located. This individual stated that when WTC went out of business in the early 1960's, they sold all the equipment in the facility and sold the empty building to him.

RII conducted an inspection of the site on August 13, 1996. The inspector interviewed the current site owner, former WTC employees, and toured the site. Based upon the interviews, and information contained in the retired docket file (November 1958 licensee letter stating no material obtained and failure of licensee to respond to May, 1959 notification of AEC intent to amend license to limit use to experimental purposes), it is likely that WTC never obtained or possessed licensed material. The inspector also determined that the facility where licensed materials would have been used and stored had WTC ever possessed material had been demolished in the 1960's and replaced with a parking lot. The inspector's findings are described in NRC Inspection Report No. C-4345/96-01 (attached).

Based upon the above information, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

SEALED SOURCE SITES REVIEWED WITH SCORES >1  
AND RECOMMENDED FOR DELETION

1. SNM-00396 University of Mississippi
2. SUD-00278 University of Kentucky
3. SUD-00263 University of Florida
4. 47-01163-26 West Virginia University
5. 01-05661-03 Lloyd Noland Hospital
6. 45-15353-01 James A. Hancock, Jr.
7. 45-01972-02 Allied Chemical Corp.
8. 45-13307-01 Bassett Furniture Industries
9. 45-00174-03 Robert McClelland, M.D.
10. GL-306 Jack L. Hartman and Co.
11. GL-307 Epperson and Dull Co.
12. GL-344 Powers Regulator Co.
13. GL-345 Powers Regulator Co.
14. SNM-00413 University of Louisville
15. CSA-05228 University of Louisville
16. CSA-03518 Virginia Polytechnic Institute
17. 45-12222-01 American Telephone & Telegraph
18. 45-11841-01 American Telephone & Telegraph
19. 45-11842-01 American Telephone & Telegraph
20. 45-13195-01 American Telephone & Telegraph
21. 01-09722-01 H.K. Porter Co.
22. SNM-766 University of Alabama
23. 01-02377-01 Vester J. Thompson, Jr.
24. 01-02377-02 Vester J. Thompson, Jr.
25. CSA-03529 Auburn University
26. 01-02510-02 The Central Foundry Co.
27. 01-11485-01 Chicago Bridge & Iron Co.
28. SNM-00479 Mississippi State University
29. SUD-00158 Mississippi State University

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. None Noted License No. SNM-396

Licensee Name: University of Mississippi

Site Name: Department of Chemical Engineering

Site Address: N/A

City: University State: MS Zip: 38677

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 2.61

Background

- \* License No. SNM-396 was issued on August 15, 1960, authorizing possession of 2,500 kilograms of natural uranium as metal slugs canned in aluminum for use in a light-water moderated subcritical assembly, for use in accordance with the procedures described in the former licensee's application dated August 4, 1960. The license issued had an expiration date of August 31, 1962.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and determined that the former licensee had applied for a radioactive materials license with the State of Mississippi and was issued License No. 12-BL-1 on June 12, 1968. The State of Mississippi license authorized the former licensee for possession and use of Uranium 238, with a chemical and/or physical form for cylindrical slugs, with a maximum radioactivity and/or quantity of material of 2,500 kilograms. The authorized use was for use in a light water moderated sub-critical assembly in accordance with the procedures described in the former licensee's application dated August 4, 1960. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Mississippi license when the State of Mississippi became an Agreement State. The licensee forwarded a copy of its State license to RII.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-05501

License No. SUD-00278

Licensee Name: University of Kentucky

Site Name: College of Engineering

Site Address: \_\_\_\_\_

City: Lexington State: Kentucky Zip: \_\_\_\_\_

Regional Contact: Jay Henson

Phone No. (404) 331-0344

Status Summary:

ORNL Final Score: 2.61

Background

License No. SUD-00278 was issued May 26, 1961 and authorized 2500 kilograms of uranium for use in a subcritical assembly. The license expired May 31, 1964.

Assessment

Upon reaching agreement state status the Commonwealth of Kentucky issued License No. 204-002-83. At the present time this is a storage only license. All material which was formerly under A.E.C. license SUD-00278 is now under the above noted Commonwealth license. The licensee forwarded a copy of its State license to RII.

Based upon the above assessment, recommend the terminated site status for this site be changed from "open" to "closed".

REGION II TERMINATED SITE LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-05837

License No. SUD-00263

Licensee Name: University of Florida

Site Name: College of Engineering

Site Address: \_\_\_\_\_

City: Gainesville State: FL Zip: \_\_\_\_\_

Regional Contact: Jay Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 3.66

Background

License No. SUD-00263 was issued May 25, 1961 and authorized possession of 8820 pounds of natural uranium. The license was renewed June 25, 1964 with a June 30, 1967 expiration.

Assessment

Region II personnel contacted the licensee's radiation safety officer (Mr. Don Monroe) and were informed that the licensed material was transferred to Florida State License No. 1320-01 in the mid to late 1960's. RII contacted the State of Florida Office of Radiation Control and confirmed that the material authorized on this license was authorized on a State license.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-13021

License No. 47-01163-26

Licensee Name: West Virginia University

Site Name: \_\_\_\_\_

Site Address: \_\_\_\_\_

City: Morgantown State: WV Zip: \_\_\_\_\_

Regional Contact: Jay Henson Phone No. (404) 331-0344

Status Summary:

ORNL Final Score: 11

Background

License No. 47-01163-26 was issued December 13, 1977 and authorized possession of a J.L. Shepherd irradiator containing a cesium-137 source of 132 curies. This license was terminated June 26, 1978.

Assessment

The material noted above is still in the possession of West Virginia University and is authorized under license no. 47-23035-01.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. Unknown License No. 01-05661-03 (C70)  
Licensee Name: Lloyd Noland Hospital  
Site Name: Department of Radiology  
Site Address: 700 Ridgeway Road (701 Lloyd Noland Hospital Drive)  
City: Fairfield State: AL Zip: 35064  
Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 28

Background

- \* License No. 1-5661-3 (C70) was issued on March 25, 1965, authorizing possession of Cesium-137 with a possession limit of 1500 Curies, for use in a Picker Model 6152 teletherapy unit for the treatment of humans. The authorized chemical and/or physical form was for a teletherapy sealed source (Picker X-Ray Corp. Model 3800-B). The license issued had an expiration date of March 31, 1970.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and were not able to locate anyone who was familiar with the teletherapy device at the time it was licensed.

Region II staff contacted the State of Alabama and determined that the licensee obtained a license from the State of Alabama to possess and use the byproduct material under State of Alabama License No. 384-AL. This license was issued on March 1, 1970 and terminated on August 1, 1977. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Alabama license when the State of Alabama became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-08965

License No. 45-15353-01

Licensee Name: James A. Hancock, Jr.

Site Name: \_\_\_\_\_

Site Address: 1130 Hanover Avenue

City: Norfolk State: VA Zip: \_\_\_\_\_

STATUS SUMMARY:

ORNL Final Score: 14

Background

License No. 45-15353-01 was issued October 26, 1972 and authorized possession of up to 50 millicuries of technetium 99m. In addition the license authorized possession of any byproduct material contained on leak test samples. The license was terminated July 18, 1980. The license file contained inadequate information as to disposition of materials.

Assessment

The only sealed source authorized on this license contained Tc-99m, which has a 6 hour half-life. This material has long since decayed. The ORNL reviewer mistakenly interpreted the license to also authorize the possession of sealed sources of any byproduct material. This second authorized use was for the performance of leak tests on client sealed sources and did not authorize the possession of the sealed sources.

Region II personnel contacted the former licensee and he confirmed that he had decayed and disposed of the Tc-99m sources before requesting termination of the license in June, 1980.

Based on the above information it is recommended that the status of this license site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. Unknown

License No. 45-01972-02

Licensee Name: Allied Chemical Corporation

Site Name: National Aniline Division, Chesterfield Plant

Site Address: \_\_\_\_\_

City: Hopewell State: VA Zip: \_\_\_\_\_

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 3.06

Background

License No. 45-01972-02 was issued November 16, 1959, authorizing possession of one sealed source containing 100 millicuries of cesium-137. The license had an expiration date of November 30, 1961.

Assessment

Region II staff examined the results of the ORNL report and performed additional checks of license information. No information on an 03 or 04 was found. However, License No. 45-01972-05 was located. This license was issued in the mid 1970's to Allied Chemical Corporation and authorizes the material that was contained in the 02 license.

Based upon the above information, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-06621

License No. 45-13307-01

Licensee Name: Bassett Furniture Industries

Site Name: Particleboard Division

Site Address: \_\_\_\_\_

City: Bassett State: VA Zip: 24055

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 8.10

Background

License No. 45-13307-01 was issued June 24, 1969, and authorized the possession of one sealed source containing a maximum of 150 millicuries of cesium-137. The license expired on June 30, 1974. The retired docket file does not contain any information regarding the disposition of the licensed material.

Assessment

RII staff determined that License No. 45-13307-01 was superseded by License No. 45-13307-02 on April 22, 1975.

Based upon the above information, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-00513

License No. 45-00174-03

Licensee Name: Robert McClelland, M.D.

Site Name: The Memorial Hospital, Department of Radiology

Site Address: \_\_\_\_\_

City: Danville State: Va Zip: 24540

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 22

Background

License No. 45-00174-03 was issued September 1, 1966 authorizing possession of up to 11,500 curies of cobalt-60 for use in a Picker teletherapy unit. Per letter request, dated May 4, 1972, the license was terminated May 18, 1972.

Assessment

The termination request of May 4, 1972 indicated that the license was issued to Dr. McClelland in error and should have been issued to the institution instead. Subsequently a license was issued to The Memorial Hospital (45-15154-02), which superseded this license.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. \_\_\_\_\_

License No. GL-00306

Licensee Name: Jack L. Hartman & Co.

Site Name: \_\_\_\_\_

Site Address: 2840 Peters Creek Road

City: Roanoke State: VA Zip: 24017

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based upon the above information it is recommended that the terminated sites status for these sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. \_\_\_\_\_

License No. GL-00307

Licensee Name: Epperson & Dull Co.

Site Name: \_\_\_\_\_

Site Address: 1103 East Main Street

City: Richmond State: VA Zip: 23215

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based upon the above information it is recommended that the terminated sites status for these sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. \_\_\_\_\_

License No. GL-00344

Licensee Name: Powers Regulator Co.

Site Name: \_\_\_\_\_

Site Address: 3415 No. Washington Blvd.

City: Arlington State: VA Zip: 22201

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based upon the above information it is recommended that the terminated sites status for these sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. \_\_\_\_\_

License No. GL-00345

Licensee Name: Powers Regulator Co.

Site Name: \_\_\_\_\_

Site Address: 2205 Tazewell Street

City: Richmond State: VA Zip: 23222

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based upon the above information it is recommended that the terminated sites status for these sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 070-00419

License No. SNM-00413

Licensee Name: University of Louisville

Site Name: Speed Scientific School

Site Address: \_\_\_\_\_

City: Louisville State: KY Zip: \_\_\_\_\_

Regional Contact: Jay Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 13

Background

License No. SNM-00413 was issued October 10, 1960 authorizing possession of 80 grams of plutonium encapsulated as Pu-Be neutron sources. The license was terminated when the Commonwealth of Kentucky became an agreement state in 1962. The licensed material then came under Kentucky License No. 16 SNM-2.

Assessment

Region II staff contacted licensee officials and received documents attesting to the above.

Based on the above information it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-05650

License No. CSA-05228

Licensee Name: University of Louisville

Site Name: Speed Scientific School

Site Address: \_\_\_\_\_

City: Louisville State: KY Zip: \_\_\_\_\_

Regional Contact: Jay Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 13

Background

License No. CSA-05228 was issued August 12, 1960 authorizing possession of 2500 kilograms of natural uranium in aluminum clad slugs. The license was terminated when the Commonwealth of Kentucky became an agreement state in 1962. The licensed material then came under Kentucky License No. 16 SM-2.

Assessment

Region II staff contacted licensee officials and received documents attesting to the above.

Based on the above information it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. not available

License No. CSA-03518

Licensee Name: Virginia Polytechnic Institute

Site Name: \_\_\_\_\_

Site Address: \_\_\_\_\_

City: Blacksburg

State: Va

Zip: \_\_\_\_\_

Regional Contact: Jay Henson

PHONE: (404) 331-0344

Status Summary:

ORNL Final Score: 1.48

Background

As noted in the ORNL summary no license copy is available. Based on information from a 1957 inspection the license was issued June 7, 1956. The license authorized possession of 2500 pounds of natural uranium in aluminum clad slugs. No expiration date after June 30, 1960 is available.

Assessment

Region II staff obtained a document from VPI that indicates this license was converted to license No. SUD-120 and that the licensed material was subsequently transferred to authorized recipients for disposal in 1985.

Based upon the above assessment it is recommended that the terminated sites status for this site be changed from "open" to "closed"

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-06612

License No. 45-12222-01

Licensee Name: American Telephone & Telegraph

Site Name: \_\_\_\_\_

Site Address: U.S. Route 60

City: Buckingham County State: VA

Zip: 23921

Regional Contact: Jay Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was subsequently terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based on the above information it is recommended that the terminated sites status for these four sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-06603

License No. 45-11841-01

Licensee Name: American Telephone & Telegraph

Site Name: \_\_\_\_\_

Site Address: Route 1

City: Purcellville State: VA Zip: 22132

Regional Contact: Jay Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was subsequently terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based on the above information it is recommended that the terminated sites status for these four sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 030-06604

License No. 45-11842-01

Licensee Name: American Telephone & Telegraph

Site Name: \_\_\_\_\_

Site Address: Route 1

City: Keswick

State: VA

Zip: 22947

Regional Contact: Jay Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was subsequently terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based on the above information it is recommended that the terminated sites status for these four sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. \_\_\_\_\_

License No. 45-13195-01

Licensee Name: American Telephone & Telegraph

Site Name: Plant Department

Site Address: Route 1

City: Moseley

State: VA

Zip: 23120

Regional Contact: Jay Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.01

Background

This license authorized the possession, use and distribution of smoke detectors pursuant to Section 32.51 of 10 CFR, Part 32. Two smoke detector models contained 80 microcuries of Americium-241, and a third model contained 130 microcuries. In CY 1969 the AEC determined that pursuant to Section 32.26 of 10 CFR, Part 32, a specific license was no longer required to receive, demonstrate, distribute, install, relocate, maintain, or test these fire detection devices and the license was subsequently terminated. No further information was or is currently required regarding the disposition of these devices to support the termination.

Assessment

Based on the above information it is recommended that the terminated sites status for these four sites be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. None Noted License No. 01-9722-01 (A66)  
Licensee Name: H. K. Porter Company, Inc. (SMI Steel since 1983)  
Site Name: Connors Steel Division  
Site Address: 5000 Powell Avenue (101 50th Street South)  
City: Birmingham State: AL Zip: 35212  
Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 1.85

Background

- \* License No. 01-09722-01 was issued on January 9, 1964, authorizing possession of Cesium-137 with a possession limit of one source of 500 millicuries, for use in a Nuclear-Chicago Corporation Model 5180 source holder for level measurements. The authorized chemical and/or physical form was for a sealed source (U.S. Nuclear Corp. Type 373). The license was amended on February 4, 1996, Amendment No. 1, increasing the possession limit from one source to four sources not to exceed 500 millicuries each. The license issued had an expiration date of January 31, 1966.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and determined that the licensee had another NRC license, No. 01-09722-02 issued January 19, 1966, and expired on January 31, 1968. During those discussions with licensee representatives, licensee representatives stated that it was their understanding that the radioactive materials under the NRC licenses were transferred to the State of Alabama license, No. 253, a current and active license.

Region II staff contacted the State of Alabama and determined that the licensee obtained a license from the State of Alabama to possess and use the byproduct material under State of Alabama License No. 253. This license was issued on October 20, 1967. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Alabama license when the State of Alabama became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 70-836

License No. SNM-766

Licensee Name: University of Alabama

Site Name: Department of Physics

Site Address: None Noted

City: Tuscaloosa State: AL Zip: 35487

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 7.27

Background

- \* License No. SNM-766 was issued on January 27, 1964, authorizing possession of plutonium with a possession limit of sixteen grams encapsulated as a Pu-Be neutron source, for use in accordance with the procedures described in the licensee's application dated December 9, 1963. The license issued had an expiration date of January 31, 1967.
- \* Based on a review of available of records one NRC inspection had been conducted on October 29, 1964. During that inspection no items of noncompliance were identified. Further review of available records did not reveal any information regarding disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and determined that the byproduct material had been transferred to the Department of Energy, Los Alamos National Laboratory, Los Alamos, NM on January 19, 1990. The former licensee transferred six drums containing approximately 1 Curie per drum of Pu-Be. The former licensee sent the NRC Region II office records regarding the transfer of this material to DOE.

Region II staff contacted the State of Alabama and determined that the licensee obtained a license from the State of Alabama to possess and use the byproduct material under State of Alabama License No. 165. This license was issued on January 25, 1967. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Alabama license when the State of Alabama became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. None Noted License No. 01-02377-01

Licensee Name: Vester J. Thompson, Jr. Consulting Engineers (Now  
called TET, Inc.)

Site Name: None Noted

Site Address: 752 Savannah Street (4234 Halls Mill Road)

City: Mobile State: AL Zip: None Noted  
(36691)

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 3.00

Background

- \* Based on a review of available records the only information identified was an application dated February 15, 1957, regarding the former licensee's request for Cobalt-60 and Cesium-137 with a possession limit of 11,000 Curies for use in radiography of metal castings. The chemical and/or physical form requested was for Co-60 and CsBa-137-P.
- \* Based on a review of available of records two NRC inspections had been conducted on January 8, 1958, with a followup inspection on April 21, 1958. The records indicate that during the January inspection items of noncompliance were identified and that the April followup inspection found the former licensee in compliance. Further review of available records did not reveal any information regarding disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and was informed that the former licensee had received a State of Alabama License, No. 147, issued on October 17, 1966. Also, licensee representatives stated that the company now was called Thompson Engineering Testing, Inc. and the radiography activities were associated with a subsidiary company called TET, Inc. From a review of available records, TET, Inc. had a State of Alabama license and had filed reciprocity with the NRC to conduct such activities in NRC jurisdiction. An inspection was conducted on July 16-17, 1996, and one item of noncompliance was identified with regards to the licensee's reciprocity form not being revised.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Vester J. Thompson, Jr. Consulting Engineers  
752 Savannah Street  
Mobile, AL

License No. 01-02377-01  
Docket No. (None Noted)

Region II staff contacted the State of Alabama and determined that the licensee obtained a license from the State of Alabama to possess and use the byproduct material under State of Alabama License No. 147. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Alabama license when the State of Alabama became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. None Noted License No. 01-02377-02  
Licensee Name: Vester J. Thompson, Jr., Inc. (Now called TET, Inc.)  
Site Name: Radiography Department  
Site Address: 752 Savannah Street (4234 Halls Mill Road)  
City: Mobile State: AL Zip: 36604  
(36691)  
Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 11

Background

- \* The original license, No. 01-02377-01, was issued on December 17, 1958, authorizing possession of Cobalt-60 and Cesium-137 with a possession limit of 1 and 10 curies, respectively, for use in Gamma Industries Model "A" cameras for industrial radiography. The authorized chemical and/or physical form was for a Gamma Industries Sealed Source Model A. The license issued had an expiration date of December 31, 1960. Subsequent license amendments and renewals were issued with a final amendment of No. 13, dated October 18, 1966, and a license expiration date of October 31, 1966. The various amendments and renewals included changes in procedures, users and increases in radioactive material possession limits. The final license issued reflected byproduct material for Cesium-137, Iridium-192, Cobalt-60 with various possession limits ranging from no single sources to exceed 1 Curie to no single source to exceed 100 Curies dependent upon which sealed source was described. The chemical and/or physical forms were for sealed sources (Gamma Industries Models T-5, T-1, S-9, S-16; Radionics, Inc., P-192-100, P60-30). The authorized use was for use in Gamma Industries Model ATL-Cs Camera or by "open air" techniques for radiography and radiation survey instrument calibration.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Vester J. Thompson, Jr., Inc.  
752 Savannah Street  
Mobile, AL

License No. 01-02377-02  
Docket No. (None Noted)

Assessment

Region II staff contacted the representatives of the former licensee and was informed that the former licensee had received a State of Alabama License, No. 147, issued on October 17, 1966. Also, licensee representatives stated that the company now was called Thompson Engineering Testing, Inc. and the radiography activities were associated with a subsidiary company called TET, Inc. From a review of available records, TET, Inc. had a State of Alabama license and had filed reciprocity with the NRC to conduct such activities in NRC jurisdiction. An inspection was conducted on July 16-17, 1996, and one item of noncompliance was identified with regards to the licensee's reciprocity form not being revised. In addition, from a review of available records the former licensee informed the NRC in a letter dated September 8, 1969 that they did not wish to renew their license and would be operating under their State of Alabama license, No. 147.

Region II staff contacted the State of Alabama and determined that the licensee obtained a license from the State of Alabama to possess and use the byproduct material under State of Alabama License No. 147. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Alabama license when the State of Alabama became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. N/A License No. CSA-03529  
Licensee Name: Alabama Polytechnic Institute (Auburn University)  
Site Name: Department of Physics  
Site Address: N/A  
City: Auburn State: AL Zip: 36849-5317  
Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 2.61

Background

- \* Based on a review of available records, the NRC staff determined that the former licensee was issued an AEC License, No. CSA-03529, on July 9, 1956, with an expiration date of June 30, 1960. The license was for 2,500 kilograms of natural uranium metal for use in the construction and operation of a subcritical assembly for educational and research purposes.
- \* Based on a review of available records the NRC staff determined that an inspection of the former licensee was conducted on March 6, 1958, and no items of noncompliance were observed or otherwise noted during the course of the inspection. Through further review of available records no information regarding disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and determined that the former licensee had applied for a radioactive materials license with the State of Alabama and was issued License No. SM 186 on April 10, 1967. The licensee forwarded a copy of its State license to RII. The State of Alabama license authorized the former licensee for possession and use of 5,520 pounds of natural uranium, elemental chemical form, 100% U metal canned in aluminum to form a subcritical assembly to aid in educational and training purposes and for research and development. In addition, in a letter dated January 12, 1967, the licensee requests application for renewal of AEC Radioactive Material License No. SUD-159 to expire on February 18, 1967. In the letter, the former licensee discussed their understanding of their current AEC license and the process for renewal at the State level through the State of Alabama Department of Public Health.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. None Noted License No. 1-2510-2 (C68)

Licensee Name: The Central Foundry Company

Site Name: Production Department

Site Address: None Noted

City: Holt State: AL Zip: 35404

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 22

Background

- \* License No. 1-2510-2 (C68) was issued on March 18, 1966, authorizing possession of Cesium-137 with a possession limit of one source of 300 millicuries and 2 sources of 500 millicuries, for use in Nuclear-Chicago Model 5183 source holders in Model 5100 Series level gauge units. The authorized chemical and/or physical form was for sealed sources (Nuclear-Chicago Model RR-138 or 833512; or U.S. Nuclear Type 373 or 378). The license issued had an expiration date of March 31, 1968.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

Assessment

Region II staff attempted to contact representatives of the former licensee and was not able to locate the licensee.

Region II staff contacted the State of Alabama and determined that the licensee obtained a license from the State of Alabama to possess and use the byproduct material under State of Alabama License No. 269. This license was issued on February 1, 1968 and terminated on January 1, 1983. Based on this information the Region II staff determined that the licensee transferred the byproduct material under the NRC license to the State of Alabama license when the State of Alabama became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. None Noted License No. 1-11485-1 (A67)

Licensee Name: Chicago Bridge & Iron Company

Site Name: None Noted

Site Address: 1500 North 50th Street

City: Birmingham State: AL Zip: 35202

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 2.47

Background

- \* License No. 1-11485-1 (A67) was issued on January 18, 1966, authorizing possession of Cobalt-60 and Iridium-192 with a possession limit of one source not to exceed 100 curies for Co-60 and no single source to exceed 100 curies for Ir-192. These sources were for industrial radiography use in Technical Operations projector Model 500 for Co-60 and Technical Operations projector Model 533 and Model 414 source changer for source replacement purposes in accordance with instruction manual furnished by Technical Operations with 414 changer for Ir-192. The authorized chemical and/or physical form was for sealed sources (Technical Operations Model A 424-8 for Co-60; Technical Operations Model A 424-1 for Ir-192). The license issued had an expiration date of January 31, 1967.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

Assessment

Region II staff attempted to contact representatives of the former licensee and was not able to locate the licensee.

Region II staff contacted the State of Alabama and determined that the licensee obtained a license from the State of Alabama to possess and use the byproduct material under State of Alabama License No. 153. This license was issued on or about December, 1966. Based on this information the Region II staff determined that the licensee transferred the byproduct material under the NRC license to the State of Alabama license when the State of Alabama became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 70-506

License No. SNM-479

Licensee Name: Mississippi State University

Site Name: Department of Physics

Site Address: N/A

City: State College (Mississippi State) State: MS Zip: 39762

Regional Contact: Jay L. Henson Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 14

Background

- \* License No. SNM-479 was issued on March 25, 1965, authorizing possession of uranium enriched in the U-235 isotope and plutonium with a possession limit of 3 grams U-235 as contained in the uranium enriched in the U-235 isotope and 80 grams plutonium encapsulated as Pu-Be neutron sources, for use in accordance with the procedures described in the former licensee's application dated February 3, 1961, as supplemented April 12, 1961. The license issued had an expiration date of May 31, 1964.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and determined that the former licensee had applied for a radioactive materials license with the State of Mississippi and was issued License No. 12-SM-3 on July 27, 1962. The licensee forwarded a copy of its State license to RII. The State of Mississippi license authorized the former licensee for possession and use of Uranium enriched in the U-235 isotope and plutonium, special nuclear material, enriched uranium in isotope U-235 and plutonium encapsulated as Pu-Be Neutron sources, with a maximum radioactivity and/or quantity of material of 3 grams U-235 and 80 grams plutonium. The authorized use was for use in accordance with the procedures described in the former licensee's application dated February 5, 1961, as supplemented April 12, 1961. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Mississippi license when the State of Mississippi became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II TERMINATED SITES LIST  
SITE STATUS REPORT

OCTOBER 23, 1996

Docket No. 040-06373

License No. SUD-158

Licensee Name: Mississippi State University

Site Name: Department of Physics

Site Address: N/A

City: State College (Mississippi State) State: MS Zip: 39762

Regional Contact: Jay L. Henson

Phone: (404) 331-0344

Status Summary:

ORNL Final Score: 2.61

Background

- \* Based on a review of available records, the NRC staff determined that the former licensee was issued an AEC License, No. SUD-158, on April 7, 1961, with an expiration date of March 31, 1964. The license was for 2,500 kilograms of natural uranium in the form of cylindrical slugs canned in aluminum for use in a light water moderated subcritical assembly in accordance with the procedures described in the former licensee's application dated February 10, 1961.
- \* Based on a review of available records no information regarding inspection history and disposition of byproduct material was found.

Assessment

Region II staff contacted the representatives of the former licensee and determined that the former licensee had applied for a radioactive materials license with the State of Mississippi and was issued License No. 12-SM-2 on July 27, 1962. The licensee forwarded a copy of its State license to RII. The State of Mississippi license authorized the former licensee for possession and use of Uranium-238, source material, cylindrical slugs canned in aluminum with a maximum radioactivity and/or quantity of material of 2,500 kilograms. The authorized use was for use in a light water moderated sub-critical assembly in accordance with the former licensee's application dated February 10, 1961. Based on this information the Region II staff determined that the licensee transferred the byproduct material possessed under the NRC license to the State of Mississippi license when the State of Mississippi became an Agreement State.

Based upon the above assessment, it is recommended that the terminated sites status for this site be changed from "open" to "closed".

REGION II MONTHLY INFORMATION STATUS REPORT

STATUS OF SITES IDENTIFIED BY ORNL

	Total	Sites Eliminated	Total Sites Pending	Pending Sites Contaminated
> 300	7	6	1 <sup>2</sup>	1 <sup>1</sup>
5-300	40	24	16 <sup>2</sup>	2
Total	47	30	17	3

1 - Contamination at one of these sites is undetermined

2 - One <300 recommended for change to "closed" status in this report (4th quarter, FY 96).

STATUS OF LICENSES WITH SEALED SOURCES NOT ACCOUNTED FOR

	Total	Eliminated or Transferred	Pending
> 300	0	0	0
< 300	75	3	72
Total	75	3	72 (see note)

Note: Total Region II sealed source files reviewed and scored by ORNL was 71. Disposition/status of the files is:

- 1 - Transferred to other Region for resolution (status unknown)
- 2 - Deleted from list after Region II review
- 43 - At Region II awaiting review/resolution
- 29 - Recommended for change of status from "open" to "closed" in October 1996 status report

Region IV transferred four files from Navy facilities for resolution by Region II.

TABULAR SUMMARY OF REGION II TERMINATED SITES

1. Region II Sites, Scores >300
2. Region II Sites, Scores <300
3. Region II Sealed Source Sites, Scores >1, but <300

REGION II TERMINATED SITES, SCORES >300

As of 10/23/96

LICENSE NO.	LICENSEE NAME	CITY, STATE	OAK RIDGE SCORE	STATUS
SNM-00724	Union Carbide	Lawrenceburg, TN	15,456	Open (note 3)
SNM-00730	B&W NNFD	Lynchburg, VA	7,346	Closed by RII action
SNM-00260	Lockheed-Georgia	Pawsonville, GA	6,534	Closed by RII action
SNM-00109	American Lava	Chattanooga, TN	6,140	Closed by RII action
45-14090-02	EPA	Vienna, VA	750	Closed by RII action
SUB-00587	David Witherspoon	Knoxville, TN	346	Closed by RII action
STB-00440	AMAX Spec. Metals	Washington, WV	321	Closed by RII action

NOTES:

(Changes printed in bold typeface)

1. Original list had seven sites with scores >300.
2. Six sites have been removed from list through RII-supplied information.
3. UCAR submitted survey/sampling plan 11/94. RII comments to UCAR 1/12/95. UCAR response received 5/95. RII response forwarded to State of Tennessee for review 6/95. State comments received 6/95 and are under review. RII comments forwarded to UCAR 08/03/95. UCAR response to comments reviewed and RII approved plan 11/95. Licensee has tentatively scheduled survey to begin in the spring of 1996. UCAR started survey in April, 1996 and expected to complete in June. Expected completion date changed to end of August, 1996. **Two soil samples obtained by NRC during June, 1996 inspection confirmed to contain uranium above release criteria. UCAR expects to forward survey report to RII in November, 1996.**

REGION II TERMINATED SITES, SCORES <300

As of 10/23/96

LICENSE NO.	LICENSEE NAME	CITY, STATE	OAK RIDGE SCORE	STATUS
01-02861-01	US Army Chem Corps	Ft. McClellan, AL	240	Closed by RII action
SMB-00720	Union Carbide	Lawrenceburg, TN	219	Consolidated with SNM-724 (>300)
39-00743-05	Medical College of South Carolina	Charleston, SC	205	Closed by RII action
SNM-01315	US Nuclear	Oak Ridge, TN	180	Closed by RII action
10-01937-15	Georgia Tech	Atlanta, GA	163	Deleted by NMSS
32-00632-16	Duke Univ Med Cntr	Durham, NC	148	Closed by RII action
SMA-00227	Vitro Chemical	Chattanooga, TN	123	Closed by RII action
SUB-00081	Homer Laughlin China	Newell, WV	115	Open (note 7)
09-07428-02	Florida Power & Light	Ft. Pierce, FL	84	Closed by RII action
C-03465	B&W NNFD	Lynchburg, VA	81	Closed by RII action
45-10085-03	Roanoke College	Salem, VA	66	Open (note 3)
52-13137-01	Dept. of HEW	San Juan, PR	48	Open
C-05317	Knoxville Iron Co.	Knoxville, TN	45	Closed by RII action
45-00953-02	US Army	Ft. Belvoir, VA	40	Closed by RII action
STB-00058	E. I. DuPont de Nemours	Belle, WV	37	Open
C-03469	American Lava	Chattanooga, TN	33	Closed by RII action
16-00380-03	US Army Med. Res. Lab.	Ft. Knox, KY	31	Open (note 5)
SNM-00842	EPA (Eastern Env Rad. Facility)	Montgomery, AL	19	Closed by RII action
47-17725-01	Appalachian Reg Hosp. Facility)	Beckley, WV	13	Deleted by NMSS (note 6)
51-12758-02	US Army (535th Engineer Detachment)	Fort Davis Canal Zone, Panama	11	Closed by RII action

REGION II TERMINATED SITES, SCORES <300 (As of 10/23/96)

LICENSE NO.	LICENSEE NAME	CITY, STATE	OAK RIDGE SCORE	STATUS
45-17819-01	US Army (535th Engr.Det.)	Ft. Belvoir, VA	11	Open
39-12662-01	Jerry Walker and Charles Lee	Clemson, SC	7	Deleted by NMSS (note 6)
09-02747-04	US Air Force	Eglin AFB, FL	6	Deleted by NMSS (note 6)
SUB-00432	Pittsburgh Metallurgical Co.	Calvert City, KY	14	Closed by RII action
C-03569	Kingston Pencil Corp.	Chattanooga, TN	10	Open (note 8)
SUB-00921	Atlantic Research Corp./Research and Ordnance Division	Alexandria, VA	22	Closed by RII action
C-03523	National Advisory Committee for Aeronautics	Langley Field, VA	8	Open (note 8)
C-04922	Carborundum Company	Parkersburg, WV	84	Closed by RII action
C-04327	Fostoria Glass Co.	Moundsville, WV	15	Open (note 8)
SUC-00628	Fostoria Glass Co.	Moundsville, WV	9	Open (note 8)
C-04345	Wheeling Tile Co.	Wheeling, WV	7	Open (note 8, 10)
C-04576	Hercules Powder Co.	Ridgely, WV	6	Open (note 8)
SNM-00430	Radiochemistry, Inc.	Louisville, KY	10	Open (added 3/11/94)
SUC-01047	Portsmouth Terminal	Portsmouth, VA	64	Closed by RII action
10-01125-01	University of Georgia	Athens, GA	11	Closed by RII action
01-00126-13	Army-Redstone Arsenal	Huntsville, AL	14	Open (note 4)
39-01285-03	University of South Carolina	Columbia, SC	18	Closed by RII action
32-06655-07	Duke University	Durham, NC	32	Closed by RII action

REGION II TERMINATED SITES. SCORES <300 (As of 10/23/96)

LICENSE NO.	LICENSEE NAME	CITY, STATE	OAK RIDGE SCORE	STATUS
09-01708-01	Orlando Research, Inc.	Orlando, FL	40	Open (note 4)
04-02579-01	Naval Postgraduate School	Monterey, CA	19	Closed by RII Action

NOTES:

(Changes printed in bold typeface)

1. Original list contained 22 sites with scores <300. Current list total is 40 separate license files.
2. **Twenty have been removed from the list based on RII action.**
3. Information on radiological status of facilities used under terminated license not used under the current license requested 3/95. No response received as of 9/30/95. Licensee has contacted former authorized users for information on material used and surveys performed in formerly utilized laboratories. Licensee to forward results of contacts to RII by end of May, 1996. Licensee had not forwarded results by August and was contacted to determine status. Licensee contact unavailable, but assistant to try and determine if response prepared and forward to RII. **Licensee response forwarded in August, 1996. Based on information supplied in letter, RII recommending this site file be closed.**
4. Additional 5 sites forwarded by ORNL 5/95.
5. Based on previous survey data by both the Army and NRC, Region II accepted proposal to resurvey two buildings. New survey protocol received 6/13/95 for review. Region II approved revised survey plan in July, 1995. Army scheduled to survey 3rd quarter FY 96. Army performed survey in April, 1996. Army expects to forward final report by end of August, 1996. **Final report forwarded to RII in August, 1996. Confirmatory survey scheduled for last week in October, 1996.**
6. Four sites were deleted by NMSS based on additional contractor review.
7. Homer Laughlin's remediation efforts continue. New estimated date for completion is July/August, 1995. HLC submitted request for approval of alternative release criteria for fixed contamination in some areas of facility and on some equipment. Request reviewed by RII personnel. Forwarded to NMSS for review and approval in 11/95. Some areas at facility surveyed and released by RII personnel in 12/95. NMSS requested additional information from licensee before decision on TAR. Licensee preparing response and expects to forward in June, 1996. Response not received. RII has scheduled inspection of former licensee facility to determine status of facility and progress on response. **RII inspected in August, 1996. Licensee continues to work on response and expects to forward to RII by December, 1996.**
8. Additional 8 sites forwarded by ORNL 12/94.
9. **Sixteen sites with scores <300 remain to be worked.**
10. Sites recommended for deletion in this report period.

REGION II TERMINATED SITES, SEALED SOURCES ONLY  
 SCORES >1 BUT <300  
 AS OF 10/23/96

LICENSE NO.	LICENSEE NAME	CITY, STATE	ORNL SCORE	STATUS
01-05661-03	Lloyd Noland Hospital	Fairfield, AL	28.2	Open*
01-02510-02	Central Foundry Co.	Holt, AL	22.1	Open*
01-02377-01	Vester Thompson	Mobile, AL	3.0	Open*
01-02377-02	Vester Thompson	Mobile, AL	11.2	Open*
01-04151-01	Ephriam Camp, MD	Huntsville, AL	9.9	Open
SNM-00766	University of Alabama	Tuscaloosa, AL	7.3	Open*
CSA-03529	Alabama Polytechnic Inst.	Auburn, AL	2.6	Open*
01-03568-01	Caldwell Foundry	Birmingham, AL	2.6	Open
01-03568-02	Caldwell Foundry	Birmingham, AL	2.6	Open
01-11485-01	Chicago Bridge & Iron	Birmingham, AL	2.5	Open*
01-01905-01	AW Williams Inspection Co.	Mobile, AL	2.2	Open
19-01398-31	Isotopes, Inc./US Coast Guard	Mobile, AL	291.0	Closed (Transfer to Region I)
SNM-00842	EPA Eastern Env. Rad. Facility	Montgomery, AL	14.0	Closed by RII Action
01-09722-01	HK Porter	Birmingham, AL	1.9	Open*
09-07428-02	Florida Power & Light	Ft. Pierce, FL	14.1	Closed by RII Action
SUD-00263	University of Florida	Gainesville, FL	3.7	Open*
09-11579-01	QC Labs	Hollywood, FL	2.1	Open
04-07326-02	Aerospace Corp.	Cape Canaveral, FL	2.4	Open
10-09383-01	Dynatomics	Chamblee, GA	1.5	Open
10-09823-01	Georgia Power	Mcdonough, GA	2.1	Open
16-17692-01	Mason & Hanger Silas Mason Co.	Lexington, KY	22.9	Open
SNM-00413	University of Louisville	Louisville, KY	13.5	Open*
SUD-00278	University of Kentucky	Lexington, KY	2.6	Open*
CSA-05228	University of Louisville	Louisville, KY	2.6	Open*
16-00380-03	Army Medical Research	Ft. Knox, KY	1.2	Open
SNM-00479	Mississippi State Univ.	State College, MS	13.5	Open*

LICENSE NO.	LICENSEE NAME	CITY, STATE	ORNL SCORE	STATUS
SUD-00158	Mississippi State Univ.	State College, MS	2.6	Open*
CSA-05230 SNM-00396	University of Mississippi	University, MS	2.6	Open*
23-10448-01	Superior Inspection Co.	MS	1.9	Open
SNM-00698	Wake Forest College	Winston Salem, NC	13.5	Open
SNM-00393	Research Triangle Inst.	Durham, NC	7.3	Open
SUD-00395	North Carolina State	Raleigh, NC	2.6	Open
52-18076-01	Chevron Chemical Co.	Guayama, PR	2.8	Open
52-09574-01	Puerto Rico Water Resources	San Juan, PR	1.6	Open
CSA-03841	University of Puerto Rico	Mayaguez, PR	1.7	Open
SUD-00601	University of South Carolina	Columbia, SC	2.6	Open
SNM-00854	Vanderbilt University	Nashville, TN	13.5	Open
SNM-00813	Southern Missionary College	Collegedale, TN	13.5	Open
SNM-00671	University of Chattanooga	Chattanooga, TN	13.5	Open
SNM-00478	Memphis State University	Memphis, TN	13.5	Open
SNM-00537	Oak Ridge Technical	Oak Ridge, TN	13.5	Open
SNM-00586	Tennessee Polytechnic Inst.	Cookeville, TN	13.5	Open
SNM-00484	Christian Brothers College	Memphis, TN	11.1	Open
SUD-00561	University of Tennessee	Knoxville, TN	2.6	Open
19-08794-02	JM Huber	Etowah, TN	2.1	Open
41-08706-11	University of Tennessee	Memphis, TN	2.4	Open
45-00174-03	Robert McClelland	Danville, VA	22.0	Open*
45-15353-01	James Hancock	Norfolk, VA	14.3	Open*
45-13307-01	Bassett Furniture	Bassett, VA	8.1	Open*

LICENSE NO.	LICENSEE NAME	CITY, STATE	ORNL SCORE	STATUS
45-09361-06	American Machine & Foundry	VA	5.9	Open
45-09469-01	Avtex Fibers	Front Royal, VA	5.9	Open
45-01972-02	Allied Chemical	Hopewell, VA	3.1	Open
45-17132-01	Army	VA	2.1	Open
45-12222-01	AT&T	Buckingham County, VA	1.0	Open
45-11841-01	AT&T	Purcellville, VA	1.0	Open
45-11842-01	AT&T	Keswick, VA	1.0	Open
45-13195-01	AT&T	Moseley, VA	1.0	Open
GL-00337	Cottrell Electronics	VA	1.0	Open
GL-00307	Epperson & Dull Co.	VA	1.0	Open
GL-00306	Jack Hartman & Co.	VA	1.0	Open
GL-00344	Powers Regulator Co.	VA	1.0	Open
GL-00345	Powers Regulator Co.	VA	1.0	Open
CSA-03518	Virginia Polytechnic Inst.	Blacksburg, VA	1.5	Open
SNM-00522	Dept. Of Interior	Morgantown, WV	18.4	Open
47-01163-26	West Virginia University	Morgantown, WV	11.1	Open
47-09638-05	Charleston General Hospital	Charleston, WV	3.5	Open
47-17428-01	Allied Chemical	WV	1.9	Open
47-17517-01	Preston Contractors	Kingwood, WV	1.9	Open
47-13738-01	Mathiessen & Hegeler Zinc	Spelter, WV	1.3	Open
45-07740-01	Navy	Yorktown, VA	1.6	Open
04-04484-01	Navy - Subic Bay Repair Facility	Guam	11.0	Open
SNM-00678	Naval Civil Engineering Lab.	Port Hueneme, CA	51.0	Open
SNM-00232	Navy - Bureau of Ships	Mare Island, CA	23.0	Open

LICENSE NO.	LICENSEE NAME	CITY, STATE	ORNL SCORE	STATUS
09-03267-01	Navy Mine Defense Lab	Panama City, FL	2.9	Open
SNM-00491	Naval Ordnance Test Station	China Lake, CA	18.0	Open