

November 8, 1996

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

FROM: Bruce S. Mallett, Director (original signed by DM Collins)  
Division of Nuclear Materials Safety

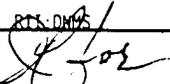
SUBJECT: STATUS REPORT OF REGION II REVIEW OF OAK RIDGE NATIONAL  
LABORATORY (ORNL) LIST OF POTENTIALLY CONTAMINATED SITES

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

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

November 8, 1996

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Office of Nuclear Material Safety  
and Safeguards

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

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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. 45-10085-03Roanoke College

REGION 11 TERZ41NATED 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 No.s 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 1-131 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.

**REGION11 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

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

Ft. Knox, KY

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.