

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
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 I 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 where Region II has performed some action are listed in Attachment 2. The status reports for those sites which are recommended for deletion are listed in Attachment 3. The information required for the Monthly Information Status Report is in Attachment 4. A tabular summary of all files assigned to Region II is in Attachment 5.

Region II recently received copies of most of the remaining files for the sites with sealed sources not accounted for. However, not all sealed source files on the ORNL list have been forwarded to Region II (Attachment 6). When all sealed source files are received, the seventy pending cases will be sorted by state and divided among the staff for follow-up and resolution.

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) Monthly Information Status Report
(5) Tabular summary for all Region II sites
(6) List of sealed source files not in Region II



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

May 16, 1996



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 101 MARIETTA STREET, N.W., SUITE 2900
 ATLANTA, GEORGIA 30323-0199

See previous concurrence

OFFICE	RII:DNMS	RII:DNMS				
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NAME	JHenson*	JPotter*				
DATE	06 / / 96	06 / / 96	06 / / 96	06 / / 96	06 / / 96	06 / / 96
COPY?	YES NO					

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UNITED STATES
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STATUS REPORTS FOR SITES WITH SCORES <300
(RECOMMENDED FOR DELETION)

45-14090-
02

Licensee Name: Environmental Protection
Agency

Site Name: Research
Laboratory

Site Address: 9200 Leesburg
Pike

City: Vienna
Regional Contact: Jay L. Henson
0344

State: VA Zip: 22180
Phone: (404) 331-

Status Summary:

ORNL Final Score:
750

Background

License No. 45-14090-02 was issued on November 29, 1972, authorizing possession of any byproduct material between Atomic Numbers 1 and 83, inclusive (possession limit of 100 mCi of each isotope, except: Hydrogen-3, 3.0 Ci; Strontium 85, 1.0 Ci; and Strontium 89, 1.0 Ci), Americium-241 (possession limit 1.0 mCi), Plutonium-237, Plutonium-238, and Plutonium 239 (1 milligram each), and Plutonium-241 (0.5 milligram), for research and development activities. The authorized chemical and/or physical form was "any."

The initial inspection of this license was conducted on June 13, 1973. At that time, the inspector found that the licensee was in the process of closing the facility. The inspector reported that the licensee was performing metabolism and bioeffects studies on cats and listed the following radioisotopes as being used: H-3, C-14, Ca-45, Fe-59, Sr-85, Sr-89, Sr-90, and I-131. Metabolism studies involved 0.5-1 microcurie of material per animal and bioeffects studies involved 10-100 microcuries per animal. Information on the number of studies was not in the file : Additionally, standards (sealed sources) with the following isotopes-were listed: Sr-90, Co-60, Be-133, and Cs-137. The inspector reported that waste disposal was by decay-in-storage or pickup by Hittman Nuclear and Development Corporation, Columbia, Maryland. Radioactive waste from one sink and one animal run was processed through a series of four tanks (three 1,000 gal. and one 1,500 gal.) before being monitored and released. Records concerning receipt,



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REGION II
101 MARIETTA STREET, N.W., SUITE 2900
REGIONAL INTERMEDIATE SITES LIST

SITE STATUS REPORT

MAY 13, 1996

45-14090-02

9200 Leesburg Pike, Vienna, VA, and
12709 Twinbrook Parkway, Rockville, MD

Docket No. 030-09026

use, and disposal of licensed material were enroute to the EPA's facility in Research Triangle Park, NC (License No. **32-14048-04**) at the time of the inspection. Licensed material was also being prepared for transfer to the North Carolina facility.

By letter dated August 17, 1977, EPA requested that the Vienna, Virginia, license be terminated. In response to an NRC request for additional information, the licensee responded that no radioactive material had been possessed or used at the Rockville, Maryland, location and no americium or plutonium was received under the license. EPA also furnished the results of their closeout survey of the facility, which showed no contamination left at the site. (NOTE: The EPA survey does not specifically address four underground septic-type tanks which could have contained radioactive waste from one sink and an experimental animal area.)

The EPA laboratory was on the property of Hazelton Laboratories (now Hazelton Washington). We have obtained a memo from the Hazelton RSO (Hazelton Washington is a current NRC broad-scope licensee) which documents closeout survey and decontamination action by Hazelton. The Hazelton survey also does not address the underground tanks. The Hazelton RSO states that a portion of the former EPA animal facility is still used by Hazelton as a radioactive waste storage area and that the underground tanks are still in place, but unused.

Assessment

With the exception of the underground tanks, surveys of the facility appear to be adequate. There is a potential that the underground tanks could be contaminated with H-3, C-14, and/or Sr-90.

EPA submitted proposed survey/decommissioning plan on February 14, 1994. Region II's comments regarding this plan were forwarded September 21, 1994. EPA submitted a revised survey/decommissioning plan on February 3, 1995. Region II forwarded its comments regarding this plan on February 27, 1995. As of March 21, 1995, EPA had not responded to the February 27 letter.

EPA responded to the February 27 letter in a letter dated April 12, 1995. After review of their response, Region II forwarded a letter to the EPA on May 1, 1995, which approved their proposed survey and decommissioning plan.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W., SUITE 2900
ATLANTA, GEORGIA 30333

SITE STATUS REPORT

MAY 13, 1996

Environmental Protection Agency License No.

45-14090-02

9200 Leesburg Pike, Vienna, VA, and
12709 Twinbrook Parkway, Rockville, MD

Docket No. 030-09026

EPA is scheduled to begin sampling of the underground tanks on November 6, 1995. Region 11 personnel will be present during the sampling.

EPA completed survey in November, 1995. Region II personnel were present during survey and performed surveys and obtained samples in conjunction with the licensee survey. The Region 11 results will be used for confirmatory purposes when analysis of samples is complete. EPA reported on February 5, 1996, that they had received sample analysis results from contractor and would submit a final report of the survey by the end of February, 1996. All reported results were at or below background radiation levels.

The EPA reported the results of their survey in a **letter dated March 6, 1996**, and provided additional information in a letter dated April 17, 1996. The results of the EPA survey and of the results of the confirmatory measurements and observations of the Region II inspector present during the survey as well as the results of the split samples obtained by the Region II inspector demonstrate that no contamination was detected above the applicable limits for fixed and removable contamination in the areas surveyed and for the liquid samples obtained from the bottom of the tanks. Copies of the EPA report and the Region II report of the results of this survey will be placed in the docket file.

Based upon the results of the survey, it is recommended that the terminated site status for this site be changed from "open" to "closed".



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REGION II
101 MARIETTA STREET, N.W., SUITE 2900
REGIONAL OFFICE

SITE STATUS REPORT

MAY 13, 1996