

July 7, 1995

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

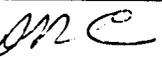
(original signed by
B. S. Mallett)
and Safeguards

FROM: Bruce S. Mallett, Director
Division of Radiation 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, 2, and 3. The status reports for those sites with an ORNL final score greater than 300 are at Attachment 1. The status reports for those sites with an ORNL final score from 5 to 300 which have been reviewed and remain in an open status are at Attachment 2 and the reports for those sites which Region II recommends be closed and deleted from the list are at Attachment 3. The information required for the Monthly Information Status Report is at Attachment 4. A tabular summary of all files assigned to Region II is at Attachment 5.

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
 - (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

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DATE	07/7/95	07/7/95	07/7/95	07/ /95	07/ /95	07/ /95
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STATUS REPORTS FOR SITES WITH ORNL SCORE >300

Attachment 1

**REGION II TERMINATED SITES
LIST**

SITE STATUS REPORT

JUNE 30, 1995

Docket No. 030-09026
02

License No. 45-14090-

Licensee Name: -Environmental Protection
Agency

Site Name: Research
Laboratory

Site Address: 9200 Leesburg
Pike

City: Vienna State: VA Zip: 22180
Regional Contact: Jay L. Henson Phone: (404) 331-
0344

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, C14, 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,

REGION II TERMINATED SITES LIST

SITE STATUS REPORT

JUNE 30, 1995

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

License No. 45-14090-02
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.