

September 25, 1998

MEMORANDUM TO: John T. Greeves, Director
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

FROM: Douglas M. Collins, Director *original signed by C. Hooley for*
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 Region II sites contained on the ORNL list of formerly licensed sites which were identified as potentially contaminated are contained in Attachments 1 through 4. The status reports for 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. Each assessment paragraph in Attachments 1 and 2 reflects the quarterly status at the time of the evaluation. The information required for the Monthly Information Status Report is in Attachment 3. A tabular summary of all files assigned to Region II is in Attachment 4. Please note that the most current information in the attachments is in bold.

If you have any questions regarding these reports or our evaluations, please contact Mr. Bryan A. Parker of my staff at (404) 562-4728.

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

OFFICE	RII:DNMS	RII:DNMS	RII:DNMS						
SIGNATURE	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>						
NAME	BParker	TDecker	CHooley						
DATE	9/25/98	9/25/98	9/25/98	9/ /98	9/ /98	9/ /98	9/ /98	9/ /98	9/ /98
COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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STATUS REPORTS FOR SITES WITH ORNL SCORE >300
(Remain In Open Status)

1. SNM-00724 Union Carbide Corporation
2. 45-02808-02 Atlantic Research Corporation
3. 08-01393-02 Naval Research Laboratory

REGION II TERMINATED SITES
LIST

SITE STATUS REPORT

September 24,
1998

Docket No. 030-06546
02808-02

License No. 45-

Licensee Name: -Atlantic Research
Corporation

Site Name: Atlantic Research
Corporation

Site Address: 5390 Cherokee
Avenue

City: Alexandria

State: VA Zip: 22314 -

Regional Contact: Bryan A. Parker
4728

Phone: (404) 562-

Status Summary:

ORNL Final Score:
6283

Background
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The license was issued on April 13, 1961. authorizing use of any byproduct material with atomic numbers 3-83 in both sealed and unsealed forms. The principal authorized place of use was at the Cherokee Avenue address noted above. This facility was the main area of research and development which included manufacturing, testing and distribution. A primary activity was the manufacture of sealed sources, including Sr-90 eye applicators.

A secondary location of use was at the Pine Ridge Plant in Gainesville, VA, located on a 588 acre site 35 miles west of Alexandria, VA. two miles south of U.S. Highway 29/211. This site was used for tracer studies in the early 1960s. with all wastes returned to the Cherokee Avenue facility. Prior to 1963, there were apparently some 55-gallon drums containing a total of less than 10 millicuries of Co-60 buried at the site.

License records indicated that all materials were removed from the premises in 1977, at which point the licensee requested termination of the license. The NRC provided guidance regarding the decommissioning of the facilities. and surveys by both the licensee and NRC were conducted in 1978. NRC released the facilities and terminated the license on February 8. 1979.

Attachment
1

REGION II TERMINATED SITES
LIST
SITE STATUS REPORT

September 24, 1998

Atlantic Research Corporation
02
Alexandria, VA

License No. 45-02808-
Docket No. 030-06546

Background
(cont'd)

In the 1980-81 timeframe, the Cherokee Avenue site was found to still be contaminated (the records are unclear as to how this was discovered), and the licensee initiated cleanup efforts in 1981. Cleanup ceased in 1982 due to excessive cost, and the records have little information regarding what happened with the site after that point. Also, surveys were performed in 1981 at the Pine Ridge Plant and elevated readings were noted in the area where the drums of Co-60 waste were supposedly buried in the early 1960s. The licensee indicated that a subcontractor would be removing the buried drums from the site; however, there is no documentation on the removal of the drums in the records.

In the 1994 timeframe, the NRC-reopened the Atlantic Research matter (the records are unclear as to why this occurred) and it was noted that the Cherokee Avenue site was still contaminated. A new NRC license (License No. 45-02808-08, Docket No. 030-33680) was issued on October 31, 1994, for any byproduct material with atomic numbers 3-83 up to one curie total with an authorized use of "possession and use related to characterization, decontamination and decommissioning activities." The licensee conducted further cleanup and surveys, and in 1995, the NRC conducted confirmatory release surveys. On September 26, 1995, the NRC released the Cherokee Avenue site and terminated the -08 license.

Assessment

From the review of the -02 license and records, Oak Ridge made two main recommendations: (1) for the Cherokee Avenue site, a determination should be made whether or not the outdoor areas are suitable for unrestricted release and documentation should be placed in the file; and (2) for the Pine Ridge Plant, former use of materials in the building should be assessed to determine if a closeout survey is required, and a final disposition of the buried Co-60 waste should be ascertained. However, the -02 license and records did not contain any documentation that discussed the -08 license that was issued in 1994. Region II reviewed available information pertaining to the -08 license in the NUDOCS system. It appeared that the decommissioning activities under the -08 license, which were not reviewed by Oak Ridge, adequately closed out the Cherokee Avenue site. The termination amendment to the -08 license, however, does not specifically mention the Pine Ridge Plant site. In mid-September 1998, Region II retrieved the -08 license from NRC Archives for review in order to: (1) verify that the closeout of the Cherokee Avenue site in 1994-95 was conducted adequately; and (2) determine if the -08 license

Attachment 1

REGIONII TERMINATED SITES LIST
SITE STATUS REPORT

September 24, 1998

Atlantic Research Corporation
Alexandria, VA

License No. 45-02808-02
Docket No. 030-06546

Assessment (cont'd)

records address the issues related to the Pine Ridge Plant site. Review is ongoing and should be completed by December 31, 1998.

Attachment 1