

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 at Attachment 1 and those with a score from 5 to 300 are at Attachment 2. The status report for the U.S. Army Engineer Research and Development Laboratories License No. 45-00953-02, which is recommended for deletion, is 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 (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

February 7, 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 *Bruce 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

DOCUMENT NAME: G:\DRSS\02-96TS.MEM

		SEND TO PUBLIC DOCUMENT ROOM?		YES		NO	
OFFICE	RII:DRSS	RII:DRSS	RII:DRSS				
SIGNAT	<i>JH</i>	<i>JP</i>	<i>DC</i>				
NAME	JHenson *	JPotter *	DCollins *				
DATE	02/7/96	02/7/96	02/7/96	02/ / 196	02/ / 196	02/ / 196	02/ / 196
COPY?	<u>YES</u> 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

**REGION II TERMINATED SITES
LIST**

SITE STATUS REPORT

FEBRUARY 6, 1996

Docket No. 070-00784
00724

License No. SNM-

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 nonrecoverable 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

FEBRUARY 6, 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 to 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 in 11/11/94. Region II reviewed the plan and sent comments back to UCAR on 1/12/95. UCAR expects to submit a revised sample plan in 4/95.

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

FEBRUARY 6, 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 11/95. 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.