

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 030-32711/93-001

Docket No. 030-32711

License No. 20-28740-01 Priority 4 Category E Program Code 3620

Licensee: Sphinx Pharmaceuticals-Cambridge, Inc.
840 Memorial Drive
Cambridge, Massachusetts 02130

Inspection At: 840 Memorial Drive
Cambridge, Massachusetts 02130

Inspection Conducted: December 6, 1993

Inspectors:

Eric Reber
Eric Reber, Health Physicist

1/12/94
Date

Approved by:

Mohamed M. Shanbaky
Mohamed M. Shanbaky, Chief
Research and Development Section
Division of Radiation Safety
and Safeguards

1/12/94
Date

Inspection Summary: Closeout Inspection on December 6, 1993 (Inspection No. 030-32711/93-001).

Area Inspected: Unannounced, closeout inspection limited to a review of selected records, interviews with personnel and survey of the facility for residual contamination prior to release of the facility for unrestricted use. Thirteen wipes were taken and assayed for removable tritium and beta contamination.

Results: No violations were identified. No radioactive waste, materials or radioactive contamination were found at the facility.

DETAILS

1. Persons Contacted

Toby Sommer, Radiation Safety Officer (RSO)
Shaune D. Ralph, Laboratory Administrator

2. Background

Sphinx Pharmaceuticals - Cambridge, Inc. is a small research facility consisting of approximately ten laboratories. The RSO stated that approximately fifteen packages of less than two millicuries each of hydrogen-3 (H-3) was the only licensed material received at the facility. The material was possessed and used from September 1992 through May 1993. The licensee applied for termination of their license on November 16, 1993.

3. Instruments Used in Survey

Thirteen wipe samples were taken to measure removable contamination in areas where H-3 was handled. The wipe samples were counted on a Packard Tri-Carb Liquid Scintillation Analyzer. The Lower Limit of Detection for this system is 19 disintegrations per minute (dpm) per sample.

4. Results of Removable Contamination Surveys

Areas of 100 square centimeters were wiped. No radioactive contamination greater than the Lower Limit of Detection was found. A diagram showing the locations of wipe samples is included as Attachment A to this report. A complete list of wipe test results is included as Attachment B to this report.

No violations were identified.

5. Radioactive Waste/Materials

No radioactive waste or materials remain at this facility. Licensee records indicate that three barrels of radioactive waste were brokered by Adco Services, Inc.

No violations were identified.

6. Exit Interview

The results of the initial survey were discussed with Toby Sommer.

Attachment A

Diagram of Removable Contamination Survey

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Attachment B

Results of Removable Contamination Survey

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Wipe sample location	H-3/gross Beta (dpm/10 cm ²)
1. workbench	<LLD
2. floor	<LLD
3. workbench	<LLD
4. floor	<LLD
5. floor	<LLD
6. workbench	<LLD
7. floor	<LLD
8. workbench	<LLD
9. workbench	<LLD
10. fume hood	<LLD
11. floor	<LLD
12. floor	<LLD
13. floor	<LLD