



Schering Plough
Animal Health

January 26, 1999

Mr. George McCann
U.S. Nuclear Regulatory Commission, Region III
801 Warrenton Road
Lisle, Illinois 60532-4351

Re: **Materials License No. 13-01264-05**
Schering-Plough Animal Health Corporation
1331 South First Street
Terre Haute, Indiana 47802
Control Number 302802

Dear Mr. McCann:

Schering-Plough Animal Health Corporation is requesting termination of materials license No. 13-01264-05.

License amendment #22 was issued on January 15, 1998 for storage only incident to disposal. At that time, all waste materials were either in storage at the 2458 N. Chamberlain Street location, or in the underground waste storage vault at the 1331 S. 1st Street location.

The waste materials at the 2458 N. Chamberlain Stree. location were disposed in April, 1998. However, during the decommissioning surveys, 11 vials of reference standards were discovered. Those waste materials were disposed in October, 1998.

RSSI performed decommissioning surveys in April and May, 1998 for all known or suspected use and storage areas at both licensed locations. The results of the RSSI surveys indicate that areas and buildings surveyed meet the release criteria found at Appendix D of NRC Regulatory Guide 1.86. In addition, wipe samples collected during the NRC inspection of November 17/18, 1997 indicate the same results.

RSSI performed a dose modeling study for buildings 84 and 118, which had been demolished in 1996, without obtaining a prior release for unrestricted use. The modeling study was completed and submitted to Mr. Brent Clayton in June, 1998.

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License amendment No. 23 was issued on June 2, 1998 for remediation of the underground waste storage vault. Remediation of the underground waste storage vault was completed in August, 1998. The waste materials were disposed in October, 1998. Roy F. Weston Co. performed the remediation for Schering-Plough and forwarded copies of the final report to your attention on December 8, 1998.

A Form 314 and a request for release of building 85 was submitted on July 23, 1998 and license amendment No. 24 was issued on August 26, 1998. This submission included the RSSI report on the decommissioning activities.

Additional wipe samples of the storage area at the 2458 N. Chamberlain Street location were collected on January 18, 1999 to verify that no contamination had occurred during storage of the reference samples.

The following documentation was included with the July 23, 1998 request for release of building 85:

1. Listing of buildings and their current status
2. History of the affected buildings
3. An inventory of the remaining reference standards
4. The decommissioning survey performed by RSSI
5. A NRC Form 314 for the disposal of waste materials, and copies of manifests.

The following documentation is attached to this termination request:

1. A NRC Form 314 for the disposal of reference standards from the 2458 N. Chamberlain Street location, and the underground vault wastes from the 1331 S. 1st Street location. The disposal of all radioactive materials has been completed.
Copies of waste disposal manifests
Descriptions of the wastes disposed
2. Current status of affected buildings
3. A copy of the dose modeling study performed by RSSI for buildings 84 and 118
4. An additional copy of the decommissioning surveys performed by RSSI of affected buildings.
5. Site drawing for both the 1331 S. 1st St. and 2458 N. Chamberlain Street locations
6. Wipe test results from the January, 1999 survey of building 209 caged storage area at the 2458 N. Chamberlain location.

Based on the documentation attached to this letter for the Terre Haute facilities of Schering-Plough Animal Health Corporation, we are requesting termination of materials license No. 13-01264-05 and further requesting release for unrestricted use of the affected buildings and the facility.

Michael K. McKee
Radiation Safety Officer
Schering Plough Animal Health Corporation
1331 South First Street
Terre Haute, IN 47802-1909
Licensee Address

SUBJECT: TERMINATION OF YOUR NRC RADIOACTIVE MATERIALS LICENSE

Dear Mr. McKee:

On January 26, 1999, you contacted the U.S. Nuclear Regulatory Commission and indicated that you wished to terminate your NRC radioactive material license. The NRC staff has reviewed your final status surveys. Based on its review, the staff has concluded that: all licensable radioactive material has been removed from your facility; and residual radioactive material attributable to licensed activities does not exceed current NRC criteria.

Based on these conclusions no further remediation or actions with respect to NRC regulated material is required. Your facility is suitable for unrestricted use and NRC license number 13-01264-05 is hereby terminated.

If you have any questions, please call George McCannof our Decommissioning staff at (630) 829-9856.

Sincerely,

Bill Riechhold

Docket No. 030-07609
License No. 13-01264-05

Materials License Termination/Retirement Form

LICENSE #(s): 13-01264-05 DOCKET #(s): 030-07609
ADDRESS: 131 S. 1st St. Terre Haute IN EXPIRATION DATE: 10/31/2-4
10/24/99 DATE OF CONTACT: _____
G. McCann CONTACTED BY: _____
Senior Rad Spec TITLE: _____
812 232 0121 x 6834 PHONE: _____

LICENSE TERMINATED: Yes LICENSE TRANSFERRED: No

LICENSE TRANSFERRED TO: Name: NA
Address: _____

Telephone: NA

BASIS FOR TERMINATION AND/OR RETIREMENT: _____
Licensee ceased operation after R&D operation moved to Illinois in 1993. Facilities were cleaned and surveyed. However, NRC RIII inspection identified small amounts of residual contamination remaining onsite, two former 20.304 burial areas, and that the radiological survey records were not adequate for use in determining acceptability of the site for unrestricted release. subsequent NRC RIII inspections verified the appropriate remediation of one of the burial areas, did not identify any residual contamination in the remaining buildings. Further, the licensee submitted a FSR which demonstrated appropriate disposal of the radiological waste and survey of the former use areas. The remaining burial area was determined to remain the responsibility of the former owner and is not considered part of this license.

TERMINATION DOCUMENTATION

1. License termination meets Type I criteria: Y N X

 Licensee used sealed sources only and the most recent leak test demonstrates that they did not leak while in the licensee's possession

 Licensee used radioactive material with $T_{1/2} \leq 60$ days and it has decayed to less than the activity in 10 CFR Part 20 Appendix C

2. License termination meets Type II criteria: Y X N

 Licensee possessed and used only sealed sources but cannot demonstrate that the sources did not leak while in the licensee's possession

Licensee possessed unsealed radioactive material with $T_{1/2} \leq 60$ days but the maximum activity authorized under license has not decayed to less than the quantity specified in Appendix C

Licensee possessed unsealed radioactive material with $T_{1/2} > 60$ days but ≤ 120 days.

Licensee possessed ^{14}C or ^3H but the total activity(s) and use authorized under the license warrants decommissioning under Type II (describe rationale above) This was a small agricultural and animal research organization. The licensee's research primarily involve, except for ^{14}C & ^3H , were short-lived radionuclides in microcurie amounts.

3. License termination meets Type III criteria: Y N

License reviewer believes action fits Type II activities, even though license authorized ^{36}C , ^{60}Co , ^{14}C , and ^3H , all materials possessed and used in very small quantities.. Regardless, if it were a Type III it would qualify for exclusion.

Decommissioning qualifies for a categorical exclusion under 10 CFR 51.22 © and

Licensee will decommission its facility in accordance with the NRC's criteria for unrestricted use.

4. License termination meets Type IV criteria: Y N

Decommissioning does not qualify for a categorical exclusion under 10 CFR 51.22 ©

Licensee will decommission its facility such that residual radioactive material may remain in excess of NRC's criteria for unrestricted use.

5. Termination survey required: Y N

Termination survey submitted by licensee

Two surveys and evaluations performed by licensee: June 30, 1998, and January 26, 1999.

Termination survey satisfies NRC survey requirements

6. Form 314 or equivalent submitted: Y N

Staff verified disposition of sealed sources:

or unsealed radioactive material

by:

letter from Form 314 recipient

call to Form 314 recipient

7. Licensee transfer records discussed in
10 CFR Parts 30.35, 30.36, 30.51; 40.36,
40.42, 40.61; or 70.25, 70.38, 70.51 Y ___ N ___

To USNRC Summary documents provided, and amounts possessed verified during inspections.

To individual assuming responsibility for the license, with a copy of the cover letter to NRC

8. NRC closeout inspection required: Y ___ N X

Closeout inspection performed: Multiple surveys performed during NRC inspections on August 5-20, 1998 (surveys of buried waste tank), August 28, 1998 (routine material inspection, verified adequacy of stored waste, verified quantities, and reviewed survey records), and inspection conducted November 17 and 18, 1997 (surveys performed by inspectors in former use areas did not identify any residual contamination greater than background).

Decommissioning Staff reviewer:

Date: _____

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03/29/99

MEMORANDUM

To: Bruce Jorgensen, Chief, Decommissioning Branch, Region 3
From: M. P. Phillips, Chief, Materials Licensing Branch
Date: 12 March 1999
Subject: TERMINATION OF SHERING-PLOUGH 'S MATERIALS LICENSE
License : 13-01264-05
Control: 304991

Problem/ Issue

Shering-Plough (Shering) is requesting termination of their NRC license. The ownership of the facilities described in the license have changed numerous times. Mallinckrodt Veterinary was the last company to use these facilities for research activities in 1993. The license was first issued on June 9, 1971, and authorized millicurie quantities of hydrogen-3 and carbon-14 for metabolism and excretion studies. The licensee had expanded its program to include millicurie quantities of hydrogen-3, carbon-14, phosphorus-32, sulfur-35, chlorine-36, chromium-51, iodine-125 and nickel-63, for research and animal studies. Since January 1998, the license has been limited to storage only incident to disposal.

The last NRC inspection (Report 030-07609/98001- DNMS) was performed in August 1998 to review the excavation of an underground radionuclide storage vault and no violations were identified.

Enclosed is a NRC FORM 314, "Certificate of Disposition of Materials", requesting termination of the license, and final close out surveys for your review. Shering feels that the facilities are suitable for release and termination of the license should be granted.

Action Requested

Please review this request and provide guidance if additional information or actions are needed. Please notify the Licensing Branch of the results of your review.

Bill Reichhold (ex. 9839) is the contact for this licensing action.

This licensing action needs to be completed before 27 May 1999.

Attachments in pending folder and license files.