

Incyte Corporation

Experimental Station Rt. 141 & Henry Clay Road Wilmington, Delaware 19880

Tel 302.498.6776 Fax 302.425.2760 Web www.incyte.com

July 26, 2007

MS16 T-6

License No.

07-30728-01

03035986

U.S. Nuclear Regulatory Commission Nuclear Materials Safety Branch 2 Division of Nuclear Materials Safety 475 Allendale Road King of Prussia, PA 19406-1415

Subject: Amendment to License No. 07-30728-01

Reference Mail Control Number: 140592

Dear Mr. Lawyer:

This is in reference to your letter dated June 29, 2007 requesting additional information for the decommissioning of the Stine-Haskell building from Incyte Corporations NRC license.

NRC Item 1: "Prior to termination of a license,10 CFR 30.35(g), 30.36(k)(4) and 30.51 require that you submit to the NRC certain records. Please confirm that the following records as applicable will be retained for eventual termination of the license for the facilities located at 1090 Elkton Road Building 112 and 115, Newark, Delaware.

a. for unsealed materials with half-lives greater than 120 days, records for disposal made pursuant to 10 CFR 20.2002 (alternate disposal procedures, including burial authorized prior to January 28, 1981), 20.2003 (disposals to the sanitary sewerage system), 20.2004

(incineration of wastes), 20.2005 (disposal of specific wastes including liquid scintillation cocktail and animal tissue), and 20.2103(b)(4), evaluations of effluent releases.

b. records important for decommissioning as described in 30.35(g), 40.36(f) and 70.25(g). Examples of such records include but are not limited to: records of contamination, identifying the radionuclides, quantities and concentrations; asbuilt drawings and modifications of structures and equipment in restricted areas and locations of inaccessible contamination such as buried pipes; a single list, updated at least every two years, of areas to which access is limited for the purpose of radiation protection (restricted areas); and records related to the provision of financial assurance."

Response: Incyte is confirming the following records are available for review.

NRC Item 2. "On page 4 of your Decommissioning Report dated August and September 2003, you state that you will report removable contamination for the ³H window and the ¹⁴C window. However in the report, you only report a beta dpm/1 00cm² wipe test value. Please describe what the beta dpm/100cm² value represents and submit any unreported values.

Response: Please see the attached letter and paper work from RSO, Inc.

NRC Item 3. "The wipe tests were counted using a liquid scintillation counter.

No documentation was evident that demonstrated that the liquid scintillation counter was calibrated or operating correctly. Please submit quality assurance documentation associated with the liquid scintillation counter.

Response: Please see the attached letter and paper work from RSO, Inc.

NRC Item 4. "Within building 112, only surveys for rooms 2, 28, and 37 were reported. Licensing applications had additionally requested license material usage in rooms 22, 26, 32, and 33. Please submit surveys for these areas or state that licensed materials were never used in this room.

Response: Although Incyte planned to use rooms 22, 26, 32, 33 for licensed material these rooms where never actually used licensed material.

NRC Item 5. "In support of an environmental assessment related for the release of your facility:

- a) Provide the name of the facility to be released
- b) Provide the size of the complex in Acers, the 3 buildings in square feet and the area that used licensed material to be released in square feet.
- c) Describe the type of building use such as "general office and laboratory"
- d) Describe the surrounding area, such as "residential", "industrial", "commercial", "mixed residential/commercial", etc.
- e) Describe the general type of activities authorized on the license, such as "laboratory procedures typically performed on bench tops and in hoods.

- f) State when you ceased licensed activities at this site.
- g) Would any of the buildings being released be considered a historical structure? If so, please state the historical importance and the effect of releasing the building would have on the structure.

Response:

- a) DuPont Company, Stine Haskell Research Center in Newark, DE
- b) Building 112 is ~ 14400 sq ft with a licensed material used area of ~ 600 sq ft. Building 115 is ~ 18000 sq ft with a licensed material use area of ~ 1000 sq ft.
- c) General office and laboratory
- d) Industrial
- e) Laboratory procedures typically performed on bench tops and in hoods.
- f) September 2003
- g) No

If you require additional information please contact me at 302-498-6827 or by e-mail at mczerwinski@incyte.com .

Sincerely,

Mark Czerwinski, CHMM, CSP

RSO/Environmental Health & Safety Engineer

Incyte Corporation Experimental Station, E336

Rt. 141 & Henry Clay Road Wilmington, Delaware 19880



Radiation Service Organization

July 27, 2007

Mark Czerwinski Incyte Corporation Dupont Experimental Station Henry Clay Road and Rt 141 Wilmington, DE 19880

Re:

NRC Request for Additional Information

(NRC Docket No. 03035986, Control No. 140592)

Dear Mr. Czerwinski:

This is to provide information regarding the request from the NRC for additional information regarding the Decommissioning Report. This report was prepared by RSO, Inc. in September 2003.

The NRC's request list 5 areas in which they would like additional information. RSO, Inc. can provide additional information for Items 2, 3 and 4.

In our files were copies of the LSC print-outs of the wipe tests along with LSC generated QC reports.

NRC Item 2. "On page 4 of your Decommissioning Report dated August and September 2003, you state that you will report removable contamination for the 3H window and 14C window. However in the report, you only report a beta dpm/100cm² wipe test value. Please describe what the beta dpm/100cm² value represents and submit any unreported values."

Response: The beta dpm/100cm² value reported represents the gross beta dpm which includes both 3H and 14C dpm from the liquid scintillation analysis. The LSC results were examined, any that would have resulted in total dpm >100 dpm would have been reported otherwise they were reported as less than 100 dpm. Note: The wipe tests were take over an area of 100 cm² and reported as dpm/100cm².

NRC Item 3. "The wipe tests were counted using a liquid scintillation counter. No documentation was evident that demonstrated that the liquid scintillation counter was calibrated or operating correctly. Please submit quality assurance documentation associated with the liquid scintillation counter.

Response: Wipe tests were counted using LSCs at Incyte. There were 2 LSCs used: Packard Tricarb 2900TR (S/N 425827) and Beckman LS6500 (ID#225940). The majority of wipe test were analyzed using the Packard 2900. Examples of the LSC reports of the counting of the radioactive standard vials that were periodically performed during their use are attached. For the Packard they are noted as the "SNC Protocol" (counting of 3H, 14C and bkg vials), for the Beckman the print-outs are noted: "INSTRUMENT CALIBRATION:" (counting of 14C standard vial). Copies of the reports are available for the following dates:

Packard	Packard	Beckman
7/26/03	8/21/03	9/4/03
7/28/03	8/21/03 pm	9/05/03
7/31/03	8/25/03	9/8/03
8/1/03	8/26/03	9/10/03
8/4/03	8/27/03	9/11/03
8/5/03	8/28/03	9/12/03
8/6/03	9/2/03	9/17/03
8/7/03	9/3/03	9/18/03
8/20/03	9/4/03	

NRC Item 4. "Within building 112, only surveys for rooms 2, 28, and 37 were reported. Licensing applications had additionally requested license material usage in rooms 22, 26, 32, and 33. Please submit surveys for these areas or state that licensed materials were never used in this room.

RSO did not perform surveys in Rooms 22, 26, 32 and 33. The rooms to be surveyed were selected by Incyte in coordination with RSO, Inc. We assume that these rooms were not selected because license material was never used in these rooms. It is possible that this could be confirmed with discussions with current Incyte personnel and with the former Incyte Radiation Safety Officer.

Thank you for the opportunity to be of service. Please feel free to call me if you need any additional information.

Sincerely,

Gregory D. Smith, CHP

RSO, Înc.

Enclosures – LSA QA Reports

SNC Protocol

Calibration Information Software Version IC: 2.11 Software Version EC: 1.31

Instrument Model: Tri-Carb 2900TR Instrument Serial Number: 425827 3H Chi Square: Not Processed

14C Chi Square: Not Processed
3H E^2/B (1-18.6 keV): 270.42 Date Processed: 9/4/03 8:08:40 AM
14C E^2/B (4-156 keV): 545.28 Date Processed: 9/4/03 8:08:40 AM
3H Efficiency (0-18.6 keV): 67.54 Date Processed: 9/4/03 8:08:40 AM
14C Efficiency (0-156 keV): 96.75 Date Processed: 9/4/03 8:08:40 AM

IPA Background Date Processed: 9/4/03 8:08:40 AM

3H Background CPM (0-18.6 keV): 16.47 Date Processed: 9/4/03 8:08:40 AM 14C Background CPM (0-156 keV): 22.63 Date Processed: 9/4/03 8:08:40 AM

3H Calibration DPM: 288400 3H Reference Date: 8/25/00 14C Calibration DPM: 133100

BECKMAN LS 6500 4 SEP 2003 07:13 #225990 9-4-03

INSTRUMENT CALIBRATION: Calibration successful

Mini

BECKINAN 156520 #225940

INSTRUMENT CALIBRATION: Mini 18 SEP 2003 04:35

Calibration successful

SNC Protocol

Calibration Information Software Version IC: 2.11 Software Version EC: 1.31

Instrument Model: Tri=Carb 2900TR Instrument Serial Number: 425827 3H Chi Square: Not Processed 14C Chi Square: Not Processed

3H E^2/B (1-18.6 keV): 281.45 Date Processed: 7/26/03 6:12:28 PM 14C E^2/B (4-156 keV): 588.90 Date Processed: 7/26/03 6:12:28 PM 3H Efficiency (0-18.6 keV): 66.80 Date Processed: 7/26/03 6:12:28 PM 14C Efficiency (0-156 keV): 96.26 Date Processed: 7/26/03 6:12:28 PM

IPA Background Date Processed: 7/26/03 6:12:28 PM

3H Background CPM (0-18.6 keV): 15.75 Date Processed: 7/26/03 6:12:28 PM 14C Background CPM (0-156 keV): 21.52 Date Processed: 7/26/03 6:12:28 PM

3H Calibration DFM: 288400 3H Reference Date: 8/25/00 14C Calibration DPM: 133100