



**Hercules Incorporated**  
Research Center  
Paper Technologies and Ventures  
500 Hercules Road  
Wilmington, DE 19808-1599  
302-995-3000

December 4, 2006

U.S. Nuclear Regulatory Commission – Region I  
Attn: Dr. Sattar Lodhi  
475 Allendale Road  
King of Prussia, PA 19406-1415

Ref: NRC License No. 07-00222-03 03037356

Dear Dr. Lodhi,

In accordance with our "possession only" license provisions, we have disposed of the subject Promethium-147 sealed source. The licensed contractor Veolia Environmental Services picked up the source for disposal on December 1, 2006. Documentation is attached. Please contact me if you need any further information.

Sincerely,

Frank J. Sutman  
RSO for Licensee

George A. Lock  
Sr. Program Manager

Attachments

cc: S. Peltz  
P.J. Riley  
S.R. Prescott  
M.N. Miller

Complete Solutions for Pulp and Paper®

139815  
NMSS/RGNI MATERIALS-C02

RECEIVED  
REGION I  
2006 DEC -6 PM 1:15

Br. 3

| NRC FORM 540<br>(6-2004)  |  | U.S. NUCLEAR REGULATORY COMMISSION<br>UNIFORM LOW-LEVEL RADIOACTIVE<br>WASTE MANIFEST<br>SHIPPING PAPER |  | 5. SHIPPER - NAME AND FACILITY<br>Hercules Inc.<br>Research Center<br>500 Hercules Road<br>Wilmington, DE 19808                                    |  | SHIPPER ID NUMBER<br>05000135847<br><input type="checkbox"/> COLLECTOR<br><input type="checkbox"/> PROCESSOR<br><input checked="" type="checkbox"/> GENERATOR TYPE<br>(Specify) 1 |  | 7. NRC FORM 540 AND 540A<br>NRC FORM 541 AND 541A<br>NRC FORM 542 AND 542A<br>ADDITIONAL INFORMATION   |  | 8. MANIFEST NUMBER<br>(Use this number on all continuation pages)<br>ZZ00055586   |  |
|---|--|---|--|--|--|---|--|--|--|---|--|
| 1. EMERGENCY TELEPHONE NUMBER<br>(Include Area Code)<br>1-800-535-5053 ACCT 86072   |  |   |  | USER PERMIT NUMBER<br>QUOTÉ PR-2006-028  |  | SHIPMENT NUMBER<br>ONYX PO 03121  |  | 9. CONSIGNEE - Name and Facility Address<br>ALARON CORPORATION<br>2138 STATE ROUTE 18<br>WAMPUM, PA 16157  |  | CONTACT<br>RYAN McKEAN<br>TELEPHONE NUMBER<br>(Include Area Code)<br>724-636-6777 |  |
| ORGANIZATION<br>INFOTRAC  |  |   |  | CONTACT<br>SOL PELTZ   |  | TELEPHONE NUMBER<br>(Include Area Code)<br>302-695-3121   |  | SIGNATURE - Authorized consignee acknowledging waste receipt   |  | DATE  |  |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?<br><input checked="" type="checkbox"/> YES<br><input type="checkbox"/> NO                                 |  | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST<br>1  |  | 6. CARRIER - Name and Address<br>Transporter #1<br>Veolia ES Technical Solutions, L.L.C.<br>1 Eden Lane<br>Flanders, NJ 07836<br>Contact: Dispatch |  | EPA ID Number<br>#1 NJD080631369<br>#2 OHD009865825<br>Ship Date: 12/01/06<br>Telephone<br>#1: 973-347-7111<br>#2: 800-538-2516<br>Contact: Dispatch                              |  | 10. CERTIFICATION<br>This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the applicable requirements of 10 CFR Parts 20 and 61, or equivalent state regulations. |  |   |  |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?<br>If "Yes," provide Manifest Number                                    |  | EPA MANIFEST NUMBER   |  | SIGNATURE - Authorized carrier acknowledging waste receipt<br>Date 12/01/06 #2   |  | Date  |  | AUTHORIZED SIGNATURE<br>Date 12/01/06  |  | TITLE<br>RSO for License  |  |
| 11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION<br>(Including proper shipping name, hazard class, UN ID number, and any additional information) |  | 12. DOT LABEL<br>"RADIOACTIVE"  |  | 13. TRANSPORT INDEX  |  | 14. PHYSICAL AND CHEMICAL FORM  |  | 15. INDIVIDUAL RADIONUCLIDES   |  | 16. TOTAL PACKAGE ACTIVITY (MBq)  |  |
| Radioactive material, excepted package-articles, 7, UN 2911   |  | NA  |  | NA   |  | solid INORGANIC   |  | Pm-147   |  | 2.2200E+01  |  |
|   |  |   |  |  |  |   |  |  |  | 17. LSA/SCO CLASS   |  |
|   |  |   |  |  |  |   |  |  |  | 18. TOTAL WEIGHT OR VOLUME<br>(Use appropriate units)                             |  |
|   |  |   |  |  |  |   |  |  |  | 10 LBS; 0.68 FT3  |  |
|   |  |   |  |  |  |   |  |  |  | 19. IDENTIFICATION NUMBER OF PACKAGE  |  |
|   |  |   |  |  |  |   |  |  |  | P6 0749702000 001   |  |
| FOR CONSIGNEE USE ONLY  |  |   |  |  |  |   |  |  |  |   |  |

| U.S. NUCLEAR REGULATORY COMMISSION  |  |  |  |  |  |  |  |  |  | 1. MANIFEST TOTALS  |  |  |  | 2. MANIFEST NUMBER |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--------------------|--|-------------------|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  |  |  |  |  |  |  |  |  |  | SPECIAL NUCLEAR MATERIAL (grams)  |  |  |  | ZZ00066596         |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CONTAINER AND WASTE DESCRIPTION   |  |  |  |  |  |  |  |  |  | U-233   |  |  |  | U-235              |  | Pu                |  | Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste |  |  |  |  |  |  |  |  |  | U-233   |  |  |  | U-235              |  | Pu                |  | Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DISPOSAL CONTAINER DESCRIPTION  |  |  |  |  |  |  |  |  |  | ACTIVITY (MBq)  |  |  |  | SOURCE (%)         |  | SHIPPER ID NUMBER |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ALL NUCLIDES  |  |  |  |  |  |  |  |  |  | TRITIUM   |  |  |  | C-14               |  | Tc-99             |  | I-129 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2200E+01  |  |  |  |  |  |  |  |  |  | NP  |  |  |  | NP                 |  | NP                |  | NP    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)   |  |  |  |  |  |  |  |  |  | 11. WASTE DESCRIPTION (See Note 2)  |  |  |  |                    |  |                   |  |       |  | 15. RADIOLOGICAL DESCRIPTION   |  |  |  |  |  |  |  |  |  | 16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  |
| 6. CONTAINER DESCRIPTION (See Note 1)   |  |  |  |  |  |  |  |  |  | 12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3)   |  |  |  |                    |  |                   |  |       |  | 14. CHEMICAL DESCRIPTION   |  |  |  |  |  |  |  |  |  | 17. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  |
| 7. VOLUME (m3)  |  |  |  |  |  |  |  |  |  | 13. SORBENT SOLIDIFICATION STABILIZATION MEDIA (See Note 3)   |  |  |  |                    |  |                   |  |       |  | 18. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  | 19. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  |
| 8. WASTE AND CONTAINER WEIGHT (kg)  |  |  |  |  |  |  |  |  |  | 14. CHEMICAL FORM/ CHELATING AGENT  |  |  |  |                    |  |                   |  |       |  | 20. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  | 21. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  |
| 9. SURFACE RADIATION LEVEL (µSv/hr) (mSv/hr)  |  |  |  |  |  |  |  |  |  | 15. INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT |  |  |  |                    |  |                   |  |       |  | 22. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  | 23. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  |
| 10. SURFACE CONTAMINATION (MBq/100 cm2) ALPHA BETA-GAMMA  |  |  |  |  |  |  |  |  |  | 16. WEIGHT % CHELATING AGENT IF > 0.1%  |  |  |  |                    |  |                   |  |       |  | 24. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  | 25. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |  |  |  |  |  |  |  |  |  |
| PB 0749702000 001/DEED001315847   |  |  |  |  |  |  |  |  |  | INORGANIC/NP  |  |  |  |                    |  |                   |  |       |  | Pm-147 2.2200E+01  |  |  |  |  |  |  |  |  |  | NA   |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |  |  |                    |  |                   |  |       |  | Total 2.2200E+01   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |  |  |                    |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |  |  |                    |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |  |  |                    |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |  |  |                    |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |  |  |                    |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |  |  |                    |  |                   |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Note 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "OP."

|                               |   |
|-------------------------------|---|
| 1. Wooden Box or Crate        | 9. Demineralizer                                  |
| 2. Metal Box                  | 10. Gas Cylinder                                  |
| 3. Plastic Drum or Pail       | 11. Bulk, Unpackaged Waste                        |
| 4. Metal Drum or Pail         | 12. Unpackaged Components                         |
| 5. Metal Tank or Liner        | 13. High Integrity Container                      |
| 6. Concrete Tank or Liner     | 14. Other. Describe in item 8, or additional page |
| 7. Polyethylene Tank or Liner |   |
| 8. Fiberglass Tank or Liner   |   |

Note 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

|                            |                                  |  |
|----------------------------|----------------------------------|--|
| 20. Charcoal               | 28. Demolition Rubble            | 36. Evaporator Bottoms/Sludges/Concentrates        |
| 21. Incinerator Ash        | 30. Cation Ion-exchange Media    | 39. Compactible Trash                              |
| 22. Soil                   | 31. Anion Ion-exchange Media     | 40. Noncompactible Trash                           |
| 23. Gas                    | 32. Mixed Bed Ion-exchange Media | 41. Animal Carcass                                 |
| 24. Oil                    | 33. Contaminated Equipment       | 42. Biological Material (except animal carcass)    |
| 25. Aqueous Liquid         | 34. Organic Liquid (except oil)  | 43. Activated Material                             |
| 26. Filter Media           | 35. Glassware or Labware         | 44. Other. Describe in item 11, or additional page |
| 27. Mechanical Filter      | 38. Sealed Source/Device         |  |
| 28. EPA or State Hazardous | 37. Paint or Plating             |  |

Note 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "S." For all solidification media, the vendor (manufacturer) and brand name must also be identified in item 13. Code 100=NONE REQUIRED.

| Sorption                 |                  |                     |                 | Solidification                                      |                    |   |  |
|--------------------------|------------------|---------------------|-----------------|---|--------------------|---|--|
| 60. Speedi Dri           | 64. Safe T Sorb  | 69. Chemisil 30     | 74. Petroset    | 88. Other. Describe in item 13, or additional page. | 90. Cement         | 94. Vinyl Ester Styrene                             |  |
| 61. Celestom             | 65. Safe N Dri   | 70. Chemisil 50     | 75. Petroset II |   | 91. Concrete       | 99. Other. Describe in item 13, or additional page. |  |
| 62. Floor Dry/ Superfine | 66. Florco       | 71. Chemisil 3030   | 76. Aquaset     |   | 92. Bitumen        |   |  |
| 63. Hi Dri               | 67. Florco X     | 72. Dioxaperl HP200 | 77. Aquaset II  |   | 93. Vinyl Chloride | 100. None Required.                                 |  |
|                          | 68. Solid A Sorb | 73. Dioxaperl HP500 |                 |   |                    |   |  |

|  |   |  |   |  |  |
|--|---|--|---|--|--|
| <b>SHIPPING DOCUMENT</b>   |   | 1. Generator ID Number<br><b>DEDD001315647</b>   | 2. Page 1 of<br><b>1</b>  | 3. Emergency Response Phone<br><b>(800) 535-5053</b> | 4. Shipping Document Tracking Number<br><b>ZZ 00055596</b> |
| 5. Generator's Name and Mailing Address<br><b>HERCULES INC ATN'S PELTZ<br/>RESEARCH CENTER<br/>500 HERCULES ROAD<br/>WILMINGTON, DE 19808-1509</b>   |   |  | Generator's Site Address (if different than mailing address)<br><b>SAME</b> |  |  |
| Generator's Phone: <b>302 995-3000</b>   |   |  | U.S. EPA ID Number<br><b>NJD00000031380</b>                                 |  |  |
| 6. Transporter 1 Company Name<br><b>VEOLIA ES TECHNICAL SOLUTIONS</b>  |   |  | U.S. EPA ID Number<br><b>QND00000005025</b>                                 |  |  |
| 7. Transporter 2 Company Name<br><b>DART TRUCKING COMPANY, INC.</b>  |   |  | U.S. EPA ID Number<br><b>PAD987400157</b>                                   |  |  |
| 8. Designated Facility Name and Site Address<br><b>ALARON CORPORATION<br/>2138 STATE ROUTE 18<br/>WAMPUM, PA 18157</b>   |   |  | Facility's Phone: <b>724 535-5777</b>                                       |  |  |
| GENERATOR  | 9a. HM  | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers  |  | 11. Total Quantity   |
|  |   |  | No.   | Type   | 12. Unit Wt/Vol.   |
|  | <input checked="" type="checkbox"/>   | <b>RADIOACTIVE MATERIAL, EXCEPTED PACKAGE ARTICLES, 7, UN2911</b>  | <b>001</b>  | <b>DM</b>  | <b>00010</b>   |
|  | <b>P</b>  |  |   |  |  |
|  |   |  |   |  |  |
|  | 2.  |  |   |  |  |
|  | 3.  |  |   |  |  |
|  | 4.  |  |   |  |  |
| 14. Special Handling Instructions and Additional Information<br><b>1) FM-147 SOURCE + INFOTRAC ACCOUNT #88072 QUOTE PR-2008-028</b>  |   |  |   |  |  |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |   |  |   |  |  |
| Generator's/Offor's Printed/Typed Name<br><b>Frank J Suttman</b>   |   |  | Signature<br><i>Frank Suttman</i>   |  | Month Day Year<br><b>12 01 06</b>                          |
| INT'L  | 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____  |  |   |  |  |
|  | Transporter signature (for exports only): _____   |  |   |  |  |
| TRANSPORTER  | 17. Transporter Acknowledgment of Receipt of Shipment   |  |   |  |  |
|  | Transporter 1 Printed/Typed Name<br><b>Salvatore A. Suvio</b>   |  | Signature<br><i>Salvatore A. Suvio</i>                                      |  | Month Day Year<br><b>12 01 06</b>                          |
| DESIGNATED FACILITY  | Transporter 2 Printed/Typed Name  |  | Signature   |  | Month Day Year   |
|  | 18. Discrepancy   |  |   |  |  |
|  | 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection |  |   |  |  |
|  | Shipping Document Tracking Number: _____  |  |   |  |  |
|  | 18b. Alternate Facility (or Generator) U.S. EPA ID Number   |  |   |  |  |
| Facility's Phone: _____  |   |  |   |  |  |
| 18c. Signature of Alternate Facility (or Generator) Month Day Year   |   |  |   |  |  |
| 19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)  |   |  |   |  |  |
| 1.   |   | 2.   |   | 3.   |  |
|  |   |  |   |  |  |
| 20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a  |   |  |   |  |  |
| Printed/Typed Name   |   |  | Signature   |  | Month Day Year   |
|  |   |  |   |  |  |

GENERATOR / SHIPPER'S INITIAL COPY

PACKING SLIP  
Combined Commons

11/21/2006  
DATE ACCUMULATED

12/11/2006  
DATE SHIPPED

GEN DRUM ID

PG 0749702806 001  
CONTAINER #

HERCULES INC ATTILIO PELTZ  
RESEARCH CENTER 500 HERCULES ROAD  
WILMINGTON, DE 19810 1599  
EPA # DE0000315047 GEN # 030100

GENERATOR - ADDRESS EPA #

RADIOACTIVE MATERIAL EXCEPTED PACKAGE-  
ARTICLES, 7, UN2011

DOT PROPER SHIPPING NAME

2200055596  
MANIFEST  
SI- PM-147 SOURCE  
ADDITIONAL DESCRIPTION

1 1  
PG/LINE

WASTE AREA  
01  
COMMON DRUMS

ALA857019  
DISPOSAL CODE  
-1 NONE  
EPA CODE

657619  
W.P. #  
05142 DM 0.88  
CONTAINER TYPE

| UNIT | CONTAINER<br>SIZE | CONT TYPE | FULLNESS | CHEMICAL NAME | INNER CONTAINER<br>ID | WASTE<br>TYPE |
|------|-------------------|-----------|----------|---------------|-----------------------|---------------|
|------|-------------------|-----------|----------|---------------|-----------------------|---------------|

1 5 GAL

1" X 1.5" COLLIMATOR CONTAINING PM-147  
SEALED SOURCE 600 MICROCURIE  
[0-100%]

NONH

SIC SOURCE  
1731 G11

FORM  
W319

SYSTEM  
H141

PCB #

PCB OOS Date

TOTAL WEIGHT 10 P

SAMS

TECHNICAL SUPERVISOR

PAGE 1 OF 1

| GENERATOR: COMCO - HERCULES INC ATTN: SOL PELTZ |        |                           |            |                               |             |                        |                   |              |                      |
|---|--------|---------------------------|------------|-------------------------------|-------------|------------------------|-------------------|--------------|----------------------|
| EPA ID: DE000191847                             |        |                           |            |                               |             |                        |                   |              |                      |
| GEN DOC NUM: DATE SHIPPED: 12/01/2006           |        |                           |            |                               |             |                        |                   |              |                      |
| Manifest #                                      | Item # | Item Description          | Approval # | Physical State / Hazard Codes | Waste Codes | Container count & size | Generator Cont ID | Yield Unit # | PCS Container Number |
| 1   | 1      | 657619 BETA SOURCE PM-147 | ALA657619  | S/-                           | NONE        | 1x5 GAL                |                   | 1            |                      |

WASTESTREAM INFORMATION PROFILE

Disposal Code

☐ Recertification

☐ Invoice Address      Veolia ES Location      PHILADELPHIA PA BRANCH      PHILADELPHIA      PA      1001      009  
OFFICE      CITY      ST

Veolia ES TSDf requested \_\_\_\_\_ Technology requested \_\_\_\_\_ Generator No. 030100      Generator EPA ID No. DED001315647  
1. Generator Name HERCULES INC ATTN: SOL PELTZ      Generator State No. \_\_\_\_\_  
Address RESEARCH CENTER      500 HERCULES ROAD      State Wastestream No. \_\_\_\_\_  
City WILMINGTON      State DE      Country US      ZIP 19808      1599  
NAICS(SIC) Code 8731      Source G11      Origin 1      Form W319      System Type \_\_\_\_\_

2. Waste Name BETA SOURCE PM-147      Lab or Waste Area \_\_\_\_\_

3. Process Generating Waste  
removed from service

4. Shipping Name RADIOACTIVE MATERIAL, EXCEPTED PACKAGE-ARTICLES  
Hazard Class 7      UN/NA No. UN2911 PG \_\_\_\_\_      RQ amt 0 lb      Waste: N      PIH: N      IH: N      DMW: N      P: N  
RQ Des: 1. \_\_\_\_\_      2. \_\_\_\_\_  
DOT Des: 1. \_\_\_\_\_      2. \_\_\_\_\_

5. Waste Codes NONE  
Wastewater \_\_\_\_\_ Non Wastewater X      Sub Category \_\_\_\_\_      Mix: N      Sol: N

6. Physical and chemical properties:

| pH         | Specific Gravity | Flash Point(F)       | Solids                                       |
|------------|------------------|----------------------|--|
| a < 2      | a < .8           | a < 80               | 0 - 0% suspended      0 - 0% ash             |
| b 2 - 5    | b .8 - 1.0       | b 80 - 100           | 0 - 0% settleable      0 - 0% water solubili |
| c 5 - 9    | c 1.0            | c 100 - 140          | 0 - 0% dissolved      0 - 0 BTU/lb           |
| d 9 - 12.5 | d 1.0 - 1.2      | d 140 - 200          |  |
| e > 12.5   | e > 1.2          | e > 200              | Free Liquid Range 0 to 0 %                   |
| - exact    | - exact          | f X no flash - exact |  |

| Physical State             | Hazardous Characteristics | Odor     |
|----------------------------|---------------------------|----------|
| s X solid                  | a air reactive            | a none   |
| m semi-solid               | w water reactive          | b mild   |
| l liquid                   | c cyanide reactive        | c strong |
| p pumpable semi-solid      | f sulfide reactive        | describe |
| f flowable powder          | e explosive               |          |
| g gas                      | o oxidizing acid          |          |
| a aerosol                  | p peroxide former         |          |
| r pressurized liquid       |                           |          |
| d debris per 40 CFR 268.45 |                           |          |
| h sharps                   |                           |          |

| Halogens |                  |
|----------|------------------|
| Br       | 0 - 0 % Bromine  |
| Cl       | 0 - 0 % Chlorine |
| F        | 0 - 0 % Fluorine |
| I        | 0 - 0 % Iodine   |

Layers: | a multilayered:      b bi-layered:      c X single phase      |

|           | Top Layer   | Second Layer | Bottom Layer | Color |
|-----------|-------------|--------------|--------------|-------|
| Viscosity | high(syrup) | high(syrup)  | high(syrup)  | VAR   |
| by        | medium(oil) | medium(oil)  | medium(oil)  |       |
| Layer:    | low(water)  | low(water)   | low(water)   |       |
|           | X solid     | solid        | solid        |       |

Used oil y/n N      HOC < 1000 ppm      HOC > 1000 ppm      page 1      WIP NO. 657619

Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,  
U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen]

Constituents

Ranges

Units

|  |     |        |   |
|--|-----|--------|---|
| 1" X 1.5" COLLIMATOR CONTAINING PM-147 SEALED SOURCE | .00 | 100.00 | % |
| 600 MICROCURIE                                       | .00 | .00    |   |

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒  
PCB Concentration .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream subject to Benzene NESHAP? Yes ☐ No ☒  
If yes, is the wastestream subject to Notification/Control Requirements? Yes ☐ No ☒  
Benzene Concentration .00 ppm
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒  
Volatile Organic Concentration .00 ppmw  
CC Approved Analytical Method? Yes ☐ No ☒  
Generator Knowledge? Yes ☐ No ☒
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☐ No ☒

14. Container Information :

Packaging:            Type/Size:             
           Type/Size:           

Shipping Frequency: Units .00 Per Day    Per Week    Per Month    Per Qtr    Per Year    One Time     
UOM            DESCRIPTION:           

15. Additional Information :

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Frank J Subman 302-995-4171 12/1/06  
Name (Print or Type) Phone Date  
Frank J Subman RSO for License  
Signature Title

FACILITY NOTIFICATION

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.



# Activity Report

JOB NO: 0748702000 WJO NO: 0748702000  
 BILL DOC NO P601121301  
 GENERATOR NO 030100 EPA ID: DED001315847

BILL TO: HERCULES INC  
 RESEARCH CENTER  
 500 HERCULES ROAD  
 WILMINGTON, DE 19808-1598  
 (302) 595-8999

JOB SITE: HERCULES INC ATTN: SOL PELTZ  
 RESEARCH CENTER  
 500 HERCULES ROAD  
 WILMINGTON, DE 19808-1598  
 (302) 595-3000

CONTACT: ACCTS PAYABLE

CONTACT: ACCTS PAYABLE

MANIFEST NUMBER(S):  
 ZZ00055566

| CUSTOMER P.O. NUMBER | PROJECT NUMBER | SHIP DATE  | TERM. |
|----------------------|----------------|------------|-------|
| 4501000100           |                | 12/01/2010 | P90   |

| DESCRIPTION  | # CONT. | CONT./CODE | QTY | UOM | PG/LN | WASTE AREA |
|--|---------|------------|-----|-----|-------|------------|
| Manifest # ZZ00055566<br>WIP 657619 / Approval ALA657619<br>BETA SOURCE PM-147 | 1       | 051A2-DM   | 10  | P   | 1 / 1 |            |

Manpwr. - RADIOACTIVE WASTE SUPERVISOR - 2898 1@1 HOUR  
 8:00 AM to 9:00 AM

Manpwr. - MATERIAL PICK-UP CHARGE 989 1@1 EACH

Misc. - ENERGY & SECURITY SURCHARGE 3120 1 PERCNT

Misc. - TRANSP. MINIMUM (FLAT FEE) 1200 1 EACH

Mtrl. - 051A2 - 5 GALLON STEEL DRUM 1010 1 EACH  
 W/REMOVABLE HEAD

Total Hours: 1  
 # of Containers: 1  
 Total Pounds: 10

Ventis Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

Activity Report

JOB NO: 0745002000  
BILL DOC NO P851121001  
GENERATOR NO 030700

WFO NO: 0745002000  
EPA ID: DE0001315647

BILL TO: HERCULES INC  
RESEARCH CENTER  
500 HERCULES ROAD  
WILMINGTON, DE 19809-1506  
(302) 895-0000

JOB SITE: HERCULES INC ATTN: SOL FELTZ  
RESEARCH CENTER  
500 HERCULES ROAD  
WILMINGTON, DE 19809-1509  
(302) 895-3000

CONTACT: ACCTS PAYABLE

CONTACT: ACCTS PAYABLE

MANIFEST NUMBER(S):  
ZZ01055665

| CUSTOMER P.O. NUMBER | PROJECT NUMBER | SHIP DATE  | TERM. |
|----------------------|----------------|------------|-------|
| 4501000-62           |                | 12/01/2006 | P&G   |

Comments:

By:



Vocis Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

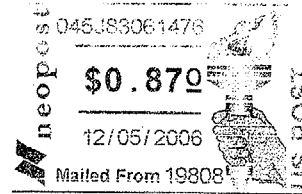
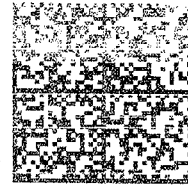
**HERCULES**

Hercules Incorporated  
Research Center  
500 Hercules Road  
Wilmington, DE 19808-1599

SUTMAN 8118/4

Thank You

PRSR  
STD



5 Nuclear Regulatory Commission - Region 1  
Attn: Dr. Sattar Lodhi  
75 Allendale Rd.  
King of Prussia, PA 19406-1415

This is to acknowledge the receipt of your letter/application dated

12/4/2006, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Termination 07-00222-03  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 139815.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.