

2008 Hanford Site Toxic Chemical Release Inventory

Emergency Planning and Community Right-to-Know Act, Section 313

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management



**United States
Department of Energy**
P.O. Box 550
Richland, Washington 99352

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Emergency Planning and Community Right-to-Know Act, Section 313

R. E. Johnson
Fluor Hanford, Inc.

Date Published
June 2009

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J. D. Asadul
Release Approval 06/03/2009
Date

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EXECUTIVE SUMMARY

Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA) requires covered facilities to report total annual releases of certain chemicals. The Pollution Prevention Act requires facilities covered under EPCRA Section 313 to include source reduction information with their submittals. Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, extends these requirements to all federal facilities that manufacture, process, or otherwise use listed toxic chemicals in quantities exceeding threshold levels established under EPCRA Section 313.

Electronic reporting is required for each toxic chemical that exceeds one of the established activity thresholds. The threshold for manufacturing or processing activities is 25,000 pounds. The threshold for chemicals otherwise used is 10,000 pounds. Certain chemicals identified by the Environmental Protection Agency (EPA) as being persistent and bioaccumulative have lower activity thresholds; either 100 pounds, 10 pounds if highly persistent and bioaccumulative, or 0.1 pound for dioxin and dioxin-like compounds.

During calendar year 2008, Hanford Site activities resulted in two chemicals used in amounts exceeding a reporting threshold: lead, Chemical Abstract Services Registry (CAS) Number 7439-92-1; and propylene, CAS Number 115-07-1. Accordingly, the *2008 Hanford Site Toxic Chemical Release Inventory*, DOE/RL-2009-07, includes total annual amounts of lead and propylene released to the environment, transferred to offsite locations, and otherwise managed as waste.

Electronic submittal and certification is now performed on the EPA website, TRIMEweb, found at https://cdx.epa.gov/SSL/CDX/epa_home.asp, after registering at EPA's Central Data Exchange (CDX). For calendar year 2007, it was not possible to print Form Rs with the TRIMEweb software. That flaw has been corrected, and the validated draft Form Rs, which will be certified by the U.S. Department of Energy, Richland Operations Office (DOE-RL) through the CDX, may be printed from the software. This report contains the validated Form R data for lead and propylene, ready for certification by DOE-RL.

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Form Status: Available for Editing
 Validation Status: Passed with Possible Errors

Form Approved OMB Number: 2070-0093
 Approval Expires: 03/31/2011

Page 1 of 5

(IMPORTANT: Type or print; read instructions before completing form)

| | | | | | |
|---|---|--|---|---|--|
| EPA United States Environmental Protection Agency | | <h1>FORM R</h1> | | TRI Facility ID Number 99352SDPRTPOBOX | |
| Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act. | | Toxic Chemical, Category or Generic Name Lead | | | |
| WHERE TO SEND COMPLETED FORMS: | 1. TRI Data Processing Center P.O.Box 1513 Lanham, MD 20703-1513 *** Draft Form Only: Do Not Submit to EPA *** | | 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F) | | |
| This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank: | | Revision (enter up to two code(s)) [][] | | Withdrawal (enter up to two code(s)) [][] | |
| Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked. | | | | | |
| Part I. FACILITY IDENTIFICATION INFORMATION | | | | | |
| SECTION 1. REPORTING YEAR : 2008 | | | | | |
| SECTION 2. TRADE SECRET INFORMATION | | | | | |
| 2.1 Are you claiming the toxic chemical identified on page 2 trade secret? <input type="checkbox"/> Yes (Answer question 2.2; Attach substantiation forms) <input checked="" type="checkbox"/> NO (Do not answer 2.2; Go to Section 3) | | 2.2 Is this copy <input type="checkbox"/> Sanitized <input type="checkbox"/> Unsanitized (Answer only if "YES" in 2.1) | | | |
| SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.) | | | | | |
| I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report. | | | | | |
| Name and official title of owner/operator or senior management official: | | | Signature: | | Date Signed: |
| Draft Form : Do Not Send to EPA | | | | | |
| SECTION 4. FACILITY IDENTIFICATION | | | | | |
| 4.1 | Facility or Establishment Name U.S. DOE HANFORD SITE | | TRI Facility ID Number 99352SDPRTPOBOX | | Facility or Establishment Name or Mailing Address (if different from street address) U.S. DOE HANFORD SITE |
| | Street 825 JADWIN AVE | | Mailing Address POST OFFICE BOX 550 | | |
| | City/County/State/Zip Code RICHLAND / Benton / WA / 99352 | | City/State/Zip Code RICHLAND / WA / 99352 | | Country (Non-US) |
| 4.2 | This report contains information for : (Important: check a or b; check c or d if applicable) | | a. <input checked="" type="checkbox"/> An Entire facility | b. <input type="checkbox"/> Part of a facility | c. <input checked="" type="checkbox"/> A Federal facility |
| | | | d. <input type="checkbox"/> GOCO | | |
| 4.3 | Technical Contact name | DALE E. JACKSON | Email Address DALE_E_JACKSON@RL.GOV | Telephone Number (include area code) 5093768086 | |
| 4.4 | Public Contact name | DALE E. JACKSON | Email Address DALE_E_JACKSON@RL.GOV | Telephone Number (include area code) 5093768086 | |
| 4.5 | NAICS Code (s) (6 digits) | a. 924110 (Primary) | b. | c. | d. |
| | | | e. | f. | |
| 4.7 | Dun and Bradstreet Number(s) (9 digits) | | | | |
| a. NA | | | | | |
| b. | | | | | |
| SECTION 5. PARENT COMPANY INFORMATION | | | | | |
| 5.1 | Name of Parent Company | NA <input type="checkbox"/> | U.S. DEPARTMENT OF ENERGY | | |
| 5.2 | Parent Company's Dun & Bradstreet Number | NA <input checked="" type="checkbox"/> | | | |

| | | | | |
|---|--|---|---|----------------------|
| EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION | | TRI Facility ID Number 99352SDPRTPOBOX | | |
| | | Toxic Chemical, Category or Generic Name Lead | | |
| SECTION 1. TOXIC CHEMICAL IDENTITY (Important DO NOT complete this section if you completed Section 2 below.) | | | | |
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 7439921 | | | |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Lead | | | |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally descriptive). NA | | | |
| SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.) | | | | |
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.) NA | | | |
| SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.) | | | | |
| 3.1 | Manufacture the toxic chemical: a. <input type="checkbox"/> Produce b. <input type="checkbox"/> Import | 3.2 | Process the toxic chemical: a. <input type="checkbox"/> As a reactant b. <input type="checkbox"/> As a formulation component c. <input type="checkbox"/> As an article component d. <input checked="" type="checkbox"/> Repackaging e. <input type="checkbox"/> As an impurity | |
| | | 3.3 | Otherwise use the toxic chemical: a. <input type="checkbox"/> As a chemical processing aid b. <input type="checkbox"/> As a manufacturing aid c. <input checked="" type="checkbox"/> Ancillary or other use | |
| SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR | | | | |
| 4.1 | <input checked="" type="checkbox"/> 05 (Enter two-digit code from instruction package.) | | | |
| SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE | | | | |
| | | A. Total Release (pounds/year*) (Enter range code or estimate**) | B. Basis of Estimate (enter code) | C. % From Stormwater |
| 5.1 | Fugitive or non-point air emissions | NA <input type="checkbox"/> | 6 | E1 |
| 5.2 | Stack or point air emissions | NA <input type="checkbox"/> | 1 | E2 |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | |
| | Stream or Water Body Name | | | |
| 5.3.1 | COLUMBIA RIVER | 0 | M2 | NA |

EPA Form 9350-1 (Rev. 03/2009) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

| | |
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| <p>EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)</p> | TRI Facility ID Number 99352SDPRTPPOBOX Toxic Chemical, Category or Generic Name Lead |
|--|--|

| SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued) | | | | |
|---|--|-------------------------------------|--|-----------------------------------|
| | | NA | A. Total Release (pounds/year*) (enter range code** or estimate) | B. Basis of Estimate (enter code) |
| 5.4.1 | Underground Injection onsite to Class I wells | <input checked="" type="checkbox"/> | | |
| 5.4.2 | Underground Injection onsite to Class II-V wells | <input type="checkbox"/> | 0 | M2 |
| 5.5 | Disposal to land onsite | | | |
| 5.5.1.A | RCRA subtitle C landfills | <input type="checkbox"/> | 19900 | O |
| 5.5.1.B | Other landfills | <input type="checkbox"/> | 2200157 | O |
| 5.5.2 | Land treatment/application farming | <input checked="" type="checkbox"/> | | |
| 5.5.3.A | RCRA Subtitle C surface impoundments | <input type="checkbox"/> | 0 | O |
| 5.5.3.B | Other surface impoundments | <input type="checkbox"/> | 0.1 | M2 |
| 5.5.4 | Other disposal | <input type="checkbox"/> | 9611 | C |

| SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS | | | | | |
|--|----------|--|--|--------|--------|
| 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs) | | | | | |
| 6.1.A Total Quantity Transferred to POTWs and Basis of Estimate | | | | | |
| 6.1.A.1 Total Transfers (pounds/year*) (enter range code** or estimate) | | | 6.1.A.2 Basis of Estimate (enter code) | | |
| 0 | | | O | | |
| 6.1.B. 1 POTW Name | | CITY OF RICHLAND WASTEWATER TREATMENT FACILITY | | | |
| POTW Address | | 555 LACY ROAD | | | |
| City | RICHLAND | State | WA | County | Benton |
| | | | | Zip | 99352 |

EPA Form 9350-1 (Rev. 03/2009) - Previous editions are obsolete. *For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

| | |
|--|--|
| EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED) | TRI Facility ID Number 99352SDPRTPPOBOX Toxic Chemical, Category or Generic Name Lead |
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| | | | | | | | | | |
|---|-------------|-------|--------------------------------------|--------|---|--|-------|------------------|--|
| SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS | | | | | | | | | |
| 6.2.1 Off-Site EPA Identification Number (RCRA ID No.) | | | | | TNR000005397 | | | | |
| Off-Site Location Name | | | | | PERMA-FIX M&EC EAST TENNESSEE TECHNOLOGY PARK | | | | |
| Off-Site Address | | | | | 2010 HWY 58, SUITE 120 BLDG K-1005 | | | | |
| City | OAK RIDGE | State | TN | County | Roane | Zip | 37830 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | [] Yes [X] No | | | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1 . 2 | | | 1 . O | | | 1 . M41 | | | |
| 2 . 72.6 | | | 2 . O | | | 2 . M99 | | | |
| 3 . .8 | | | 3 . O | | | 3 . M94 | | | |
| 6.2.2 Off-Site EPA Identification Number (RCRA ID No.) | | | | | ILD098642424 | | | | |
| Off-Site Location Name | | | | | VEOLIA ES TECHNICAL SOLUTIONS | | | | |
| Off-Site Address | | | | | 7 MOBILE AVENUE | | | | |
| City | SAUGET | State | IL | County | St Clair | Zip | 62201 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | [] Yes [X] No | | | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1 . 4 | | | 1 . O | | | 1 . M99 | | | |
| 6.2.3 Off-Site EPA Identification Number (RCRA ID No.) | | | | | ORD089452353 | | | | |
| Off-Site Location Name | | | | | CHEM WASTE MANAGEMENT OF NW | | | | |
| Off-Site Address | | | | | 17629 CEDAR SPRINGS LANE | | | | |
| City | ARLINGTON | State | OR | County | Gilliam | Zip | 97812 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | [] Yes [X] No | | | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1 . 214.5 | | | 1 . O | | | 1 . M99 | | | |
| 6.2.4 Off-Site EPA Identification Number (RCRA ID No.) | | | | | UTD981552177 | | | | |
| Off-Site Location Name | | | | | CLEAN HARBORS ARAGONITE LLC | | | | |
| Off-Site Address | | | | | 11600 NORTH APTUS ROAD | | | | |
| City | GRANTSVILLE | State | UT | County | Tooele | Zip | 84029 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | [] Yes [X] No | | | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1 . 6.3 | | | 1 . O | | | 1 . M24 | | | |
| 2 . 1243.2 | | | 2 . O | | | 2 . M79 | | | |
| 3 . 418.6 | | | 3 . O | | | 3 . M94 | | | |
| 4 . 237.9 | | | 4 . O | | | 4 . M99 | | | |
| 5 . 57.6 | | | 5 . O | | | 5 . M41 | | | |

| | | | | | | | | | |
|---|-----------|-------|--------------------------------------|--------|----------|--|-------|--|--|
| 6.2.5 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | | | ARD069748192 | |
| Off-Site Location Name | | | | | | | | CLEAN HARBORS EL DORADO | |
| Off-Site Address | | | | | | | | 309 AMERICAN CIRCLE | |
| City | EL DORADO | State | AR | County | Union | Zip | 71730 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | | | | [] Yes [X] No | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1. 25.6 | | | 1. O | | | 1. M99 | | | |
| 2. 0 | | | 2. O | | | 2. M94 | | | |
| 6.2.6 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | | | ID4890008952 | |
| Off-Site Location Name | | | | | | | | IDAHO NATIONAL ENGINEERING & ENVIRONMENTAL LABORATORY | |
| Off-Site Address | | | | | | | | RWMC | |
| City | SCOVILLE | State | ID | County | Butte | Zip | 83415 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | | | | [] Yes [X] No | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1. 0 | | | 1. O | | | 1. M94 | | | |
| 6.2.7 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | | | TND982086969 | |
| Off-Site Location Name | | | | | | | | TOXCO MATERIAL MANAGEMENT CNTR | |
| Off-Site Address | | | | | | | | 109 FLINT ROAD | |
| City | OAK RIDGE | State | TN | County | Roane | Zip | 37830 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | | | | [] Yes [X] No | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1. 5274.6 | | | 1. O | | | 1. M24 | | | |
| 6.2.8 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | | | AZ0000337360 | |
| Off-Site Location Name | | | | | | | | VEOLIA ES TECHNICAL SOLUTIONS | |
| Off-Site Address | | | | | | | | 5736 W. JEFFERSON ST. | |
| City | PHOENIX | State | AZ | County | Maricopa | Zip | 85043 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | | | | [] Yes [X] No | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1. 571 | | | 1. O | | | 1. M24 | | | |
| 6.2.9 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | | | NM4890139088 | |
| Off-Site Location Name | | | | | | | | WESTINGHOUSE TRU SOLUTIONS LLC FOR US DOE | |
| Off-Site Address | | | | | | | | 30 MILE E OF CARLSBAD ON JAL HIGHWAY | |
| City | CARLSBAD | State | NM | County | Eddy | Zip | 88221 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | | | | [] Yes [X] No | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1. 6257.6 | | | 1. O | | | 1. M79 | | | |
| 6.2.10 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | | | COD980591184 | |
| Off-Site Location Name | | | | | | | | VEOLIA ENVIRONMENTAL SERVICES, LLC | |
| Off-Site Address | | | | | | | | 9131 EAST 96TH AVENUE | |
| City | HENDERSON | State | CO | County | Adams | Zip | 80640 | Country (Non-US) | |
| Is location under control of reporting facility or parent company? | | | | | | | | [] Yes [X] No | |

| | | | | | | | | |
|---|------------------|--------------------------------------|----|--|-------------|------------------|-------|---------------------|
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | | |
| 1. 263.8 | | 1. 0 | | 1. M99 | | | | |
| 6.2.11 Off-Site EPA Identification Number (RCRA ID No.) | | | | WAR000010355 | | | | |
| Off-Site Location Name | | | | PERMA-FIX NORTHWEST | | | | |
| Off-Site Address | | | | 2025 BATELLE BLVD | | | | |
| City | RICHLAND | State | WA | County | Benton | Zip | 99352 | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [X] No | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | | |
| 1. 3119.4 | | 1. 0 | | 1. M41 | | | | |
| 2. 44 | | 2. 0 | | 2. M94 | | | | |
| 3. 651.1 | | 3. 0 | | 3. M99 | | | | |
| 6.2.12 Off-Site EPA Identification Number (RCRA ID No.) | | | | ORD980975692 | | | | |
| Off-Site Location Name | | | | OIL REREFINING COMPANY INC | | | | |
| Off-Site Address | | | | 4150 NORTH SUTTLE ROAD | | | | |
| City | PORTLAND | State | OR | County | Multnomah | Zip | 97217 | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [X] No | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | | |
| 1. 0 | | 1. 0 | | 1. M99 | | | | |
| 6.2.13 Off-Site EPA Identification Number (RCRA ID No.) | | | | WAD020257945 | | | | |
| Off-Site Location Name | | | | BURLINGTON ENVIRONMENTAL INC | | | | |
| Off-Site Address | | | | 1701 EAST ALEXANDER AVENUE | | | | |
| City | TACOMA | State | WA | County | Pierce | Zip | 98421 | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [X] No | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | | |
| 1. 37.4 | | 1. 0 | | 1. M94 | | | | |
| 2. 43.8 | | 2. 0 | | 2. M41 | | | | |
| 6.2.14 Off-Site EPA Identification Number (RCRA ID No.) | | | | CAD066233966 | | | | |
| Off-Site Location Name | | | | QUEMETCO CITY OF INDUSTRY | | | | |
| Off-Site Address | | | | 720 SOUTH SEVENTH AVENUE | | | | |
| City | CITY OF INDUSTRY | State | CA | County | Los Angeles | Zip | 91746 | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [X] No | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | | |
| 1. 37000 | | 1. 0 | | 1. M24 | | | | |
| 6.2.15 Off-Site EPA Identification Number (RCRA ID No.) | | | | TNR000005397 | | | | |
| Off-Site Location Name | | | | PERMA-FIX ENVIRONMENTAL | | | | |
| Off-Site Address | | | | HWY 58 AT BLDG K1005 | | | | |
| City | OAK RIDGE | State | TN | County | Roane | Zip | 37830 | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [X] No | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | | |
| 1. 23.2 | | 1. 0 | | 1. M41 | | | | |
| 2. 0 | | 2. 0 | | 2. M94 | | | | |

| | | | | | | | | |
|---|--|-------|--------------------------------------|--------|--|--|-------|------------------|
| 6.2.16 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | UTD982598898 | | |
| Off-Site Location Name | | | | | | ENERGYSOLUTIONS; CLIVE DISPOSAL SITE | | |
| Off-Site Address | | | | | | INTERSTATE 80, EXIT 49 | | |
| City | CLIVE | State | UT | County | Tooele | Zip | 84029 | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [X] No | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1. 291.5 | | | 1. O | | 1. M41 | | | |
| 6.2.17 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | TND982109142 | | |
| Off-Site Location Name | | | | | | DIVERSIFIED SCIENCES AND SERVICES INC | | |
| Off-Site Address | | | | | | 657 GALLAGHER ROAD | | |
| City | KINGSTON | State | TN | County | Roane | Zip | 37763 | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [X] No | | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | | |
| 1. 4.9 | | | 1. O | | 1. M99 | | | |
| 2. .3 | | | 2. O | | 2. M41 | | | |
| SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY | | | | | | | | |
| [] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category. | | | | | | | | |
| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence [enter 3-character code(s)] | | | | | d. Waste Treatment Efficiency Estimate | | |
| 7A. 1 a | 7A. 1 b | | | | | 7A. 1 d | | |
| W | 1: H129 2: H077 3: H123 4: H121 5: H082 6: H075 7: H101 | | | | | E6 | | |
| 7A. 2 a | 7A. 2 b | | | | | 7A. 2 d | | |
| W | 1: H123 2: H075 3: H121 4: H083 5: H129 6: H082 7: H122 | | | | | E6 | | |
| 7A. 3 a | 7A. 3 b | | | | | 7A. 3 d | | |
| S | 1: H111 | | | | | E6 | | |

EPA Form 9350-1 (Rev. 03/2009) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

| | |
|--|--|
| <p>EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)</p> | TRI Facility ID Number 99352SDPRTPPOBOX Toxic Chemical, Category or Generic Name Lead |
|--|--|

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES
 Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.
 Energy Recovery Methods [enter 3-character code(s)]

SECTION 7C. ON-SITE RECYCLING PROCESSES
 Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.
 Recycling Methods [enter 3-character code(s)]

| SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES | | Column A Prior Year (pounds/year*) | Column B Current Reporting Year (pounds/year*) | Column C Following Year (pounds/year*) | Column D Second Following Year (pounds/year*) |
|--|--|--|---|--|--|
| 8.1 | | | | | |
| 8.1a | Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills | 14900 | 19900 | 25000 | 25000 |
| 8.1b | Total other on-site disposal or other releases | 9137.3 | 9618.1 | 9500 | 9500 |
| 8.1c | Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills | 0 | 0 | 0 | 0 |
| 8.1d | Total other off-site disposal or other releases | 41443.5 | 13008.4 | 30000 | 30000 |
| 8.2 | Quantity used for energy recovery onsite | NA | NA | NA | NA |
| 8.3 | Quantity used for energy recovery offsite | NA | NA | NA | NA |
| 8.4 | Quantity recycled onsite | NA | NA | NA | NA |
| 8.5 | Quantity recycled offsite | 64232.6 | 42851.9 | 50000 | 50000 |
| 8.6 | Quantity treated onsite | NA | NA | NA | NA |
| 8.7 | Quantity treated offsite | NA | NA | NA | NA |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | | 2200157 | | |
| 8.9 | Production ratio or activity index | | 1.63 | | |
| 8.10 | Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11. | | | | |
| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | | |
| 8.10.1 | NA | | | | |
| 8.11 | If you wish to submit additional optional information on source reduction, recycling, or pollution control activities, check "Yes." | | | Yes <input checked="" type="checkbox"/> | |

EPA Form 9350-1 (Rev. 03/2009) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year

TRI Facility ID Number

99352SDPRTPOBOX

Toxic Chemical, Category or Generic Name

Lead

Additional optional information on source reduction, recycling, or pollution control activities.

DISPOSAL OF 19,900 POUNDS OF LEAD IN LDR-COMPLIANT WASTE IN TRENCHES 31 AND 34 (REPORTED IN SECTION 8.1A), DISPOSAL OF 2,200,000 POUNDS OF LEAD IN LDR-COMPLIANT REMEDIATION WASTE IN THE CERCLA ERDF TRENCH (REPORTED IN SECTION 8.8), DISPOSAL OF 0.1 POUNDS OF LEAD IN A TREATED EFFLUENT DISPOSAL FACILITY (PERMIT CONCENTRATIONS WERE NOT EXCEEDED, INCLUDED IN 8.1B), TRANSFER OF 13,008 POUNDS OF LEAD TO OFFSITE TSD FACILITIES FOR TREATMENT AND/OR DISPOSAL (REPORTED IN SECTION 8.1D) AND 42,852 POUNDS OF LEAD SENT OFFSITE FOR RECLAMATION (REPORTED IN SECTION 8.5), ALL SEEM TO BE HUGE QUANTITIES OF LEAD RELEASED TO THE ENVIRONMENT. HOWEVER, ALL OF THIS LEAD WAS PROPERLY DISPOSED OF IN PERMITTED FACILITIES THAT WERE IN FULL COMPLIANCE WITH LDR REQUIREMENTS FOR LEAD. THE ONLY SIGNIFICANT RELEASE OF LEAD TO THE ENVIRONMENT THAT WAS NOT INTO A PERMITTED FACILITY WAS THE 9,611 POUNDS OF LEAD FROM AMMUNITION FIRED AT THE HANFORD PATROL FIRING RANGE (REPORTED IN SECTION 8.1B). ALTHOUGH THE 2,200,000 POUNDS OF LEAD FROM CERCLA REMEDIATION WASTE ARE SHOWN AS A "RELEASE TO THE ENVIRONMENT" REPORTED IN SECTION 8.8, THE ACTUAL SITUATION IS THAT THIS QUANTITY OF LEAD WAS CLEANED UP FROM THE ENVIRONMENT, AND PLACED INTO A PERMANENT COMPLIANT DISPOSAL FACILITY.

Form Status: Available for Editing
Validation Status: Passed with Possible Errors

Form Approved OMB Number: 2070-0093
 Approval Expires: 03/31/2011

Page 1 of 5

(IMPORTANT: Type or print; read instructions before completing form)

| | |
|--|--|
| <p>EPA</p> <p>United States Environmental Protection Agency</p> <p style="text-align: center;">FORM R</p> <p>Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.</p> | <p>TRI Facility ID Number</p> <p>99352SDPRTPBOX</p> <p>Toxic Chemical, Category or Generic Name</p> <p>Propylene</p> |
|--|--|

| | |
|--|--|
| <p>WHERE TO SEND COMPLETED FORMS:</p> <p>1. TRI Data Processing Center P.O.Box 1513 Lanham, MD 20703-1513 *** Draft Form Only: Do Not Submit to EPA ***</p> | <p>2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)</p> |
|--|--|

| | | |
|---|---|---|
| <p>This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:</p> | <p>Revision (enter up to two code(s))</p> <p style="text-align: center;">[][]</p> | <p>Withdrawal (enter up to two code(s))</p> <p style="text-align: center;">[][]</p> |
|---|---|---|

Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.

Part I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR : 2008

SECTION 2. TRADE SECRET INFORMATION

| | |
|---|---|
| <p>2.1 Are you claiming the toxic chemical identified on page 2 trade secret?</p> <p><input type="checkbox"/> Yes (Answer question 2.2; Attach substantiation forms)</p> <p><input checked="" type="checkbox"/> NO (Do not answer 2.2; Go to Section 3)</p> | <p>2.2 Is this copy</p> <p><input type="checkbox"/> Sanitized <input type="checkbox"/> Unsanitized (Answer only if "YES" in 2.1)</p> |
|---|---|

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

| | | |
|---|-------------------|---------------------|
| <p>Name and official title of owner/operator or senior management official:</p> <p>Draft Form : Do Not Send to EPA</p> | <p>Signature:</p> | <p>Date Signed:</p> |
|---|-------------------|---------------------|

SECTION 4. FACILITY IDENTIFICATION

| | |
|--|---|
| <p>4.1</p> <p>Facility or Establishment Name</p> <p>U.S. DOE HANFORD SITE</p> <p>Street</p> <p>825 JADWIN AVE</p> <p>City/County/State/Zip Code</p> <p>RICHLAND / Benton / WA / 99352</p> | <p>TRI Facility ID Number</p> <p>99352SDPRTPBOX</p> <p>Facility or Establishment Name or Mailing Address(if different from street address)</p> <p>U.S. DOE HANFORD SITE</p> <p>Mailing Address</p> <p>POST OFFICE BOX 550</p> <p>City/State/Zip Code</p> <p>RICHLAND / WA / 99352</p> <p>Country (Non-US)</p> |
|--|---|

| | | | | |
|---|--|---|--|---|
| <p>4.2 This report contains information for : (Important: check a or b; check c or d if applicable)</p> | <p>a. <input checked="" type="checkbox"/> An Entire facility</p> | <p>b. <input type="checkbox"/> Part of a facility</p> | <p>c. <input checked="" type="checkbox"/> A Federal facility</p> | <p>d. <input type="checkbox"/> GOCO</p> |
|---|--|---|--|---|

| | | |
|---|--|--|
| <p>4.3 Technical Contact name</p> <p>DALE E. JACKSON</p> | <p>Email Address</p> <p>DALE_E_JACKSON@RL.GOV</p> | <p>Telephone Number (include area code)</p> <p>5093768086</p> |
|---|--|--|

| | | |
|--|--|--|
| <p>4.4 Public Contact name</p> <p>DALE E. JACKSON</p> | <p>Email Address</p> <p>DALE_E_JACKSON@RL.GOV</p> | <p>Telephone Number (include area code)</p> <p>5093768086</p> |
|--|--|--|

| | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|
| <p>4.5 NAICS Code (s) (6 digits)</p> <p>a. 924110 (Primary)</p> | <p>b.</p> | <p>c.</p> | <p>d.</p> | <p>e.</p> | <p>f.</p> |
|--|-----------|-----------|-----------|-----------|-----------|

| | |
|--|-----------|
| <p>4.7 Dun and Bradstreet Number(s) (9 digits)</p> <p>a. NA</p> | <p>b.</p> |
|--|-----------|

SECTION 5. PARENT COMPANY INFORMATION

| | |
|---|---|
| <p>5.1 Name of Parent Company</p> <p>NA <input type="checkbox"/> U.S. DEPARTMENT OF ENERGY</p> | <p>5.2 Parent Company's Dun & Bradstreet Number</p> <p>NA <input checked="" type="checkbox"/></p> |
|---|---|

| | | | | |
|---|---|---|--|----------------------|
| EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION | | TRI Facility ID Number 99352SDPRTPOBOX | | |
| | | Toxic Chemical, Category or Generic Name Propylene | | |
| SECTION 1. TOXIC CHEMICAL IDENTITY (Important DO NOT complete this section if you completed Section 2 below.) | | | | |
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 115071 | | | |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Propylene | | | |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally descriptive). NA | | | |
| SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.) | | | | |
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.) NA | | | |
| SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.) | | | | |
| 3.1 | Manufacture the toxic chemical: a. <input type="checkbox"/> Produce b. <input type="checkbox"/> Import | 3.2 | Process the toxic chemical: a. <input type="checkbox"/> As a reactant b. <input type="checkbox"/> As a formulation component c. <input type="checkbox"/> As an article component d. <input type="checkbox"/> Repackaging e. <input type="checkbox"/> As an impurity | |
| | | 3.3 | Otherwise use the toxic chemical: a. <input type="checkbox"/> As a chemical processing aid b. <input type="checkbox"/> As a manufacturing aid c. <input checked="" type="checkbox"/> Ancillary or other use | |
| SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR | | | | |
| 4.1 | [04] (Enter two-digit code from instruction package.) | | | |
| SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE | | | | |
| | | A. Total Release (pounds/year*) (Enter range code or estimate**) | B. Basis of Estimate (enter code) | C. % From Stormwater |
| 5.1 | Fugitive or non-point air emissions | NA <input type="checkbox"/> | B | E1 |
| 5.2 | Stack or point air emissions | NA <input checked="" type="checkbox"/> | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | |
| | Stream or Water Body Name | | | |
| 5.3.1 | NA | | | |

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*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

| | |
|--|---|
| <p>EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)</p> | <p>TRI Facility ID Number 99352SDPRTPOBOX</p> <p>Toxic Chemical, Category or Generic Name Propylene</p> |
|--|---|

| SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued) | | | | |
|---|--|-------|--|-----------------------------------|
| | | NA | A. Total Release (pounds/year*) (enter range code** or estimate) | B. Basis of Estimate (enter code) |
| 5.4.1 | Underground Injection onsite to Class I wells | [X] | | |
| 5.4.2 | Underground Injection onsite to Class II-V wells | [X] | | |
| 5.5 | Disposal to land onsite | | | |
| 5.5.1.A | RCRA subtitle C landfills | [X] | | |
| 5.5.1.B | Other landfills | [X] | | |
| 5.5.2 | Land treatment/application farming | [X] | | |
| 5.5.3A | RCRA Subtitle C surface impoundments | [X] | | |
| 5.5.3B | Other surface impoundments | [X] | | |
| 5.5.4 | Other disposal | [X] | | |

| SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS | |
|--|--|
| 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs) | |
| 6.1.A Total Quantity Transferred to POTWs and Basis of Estimate | |
| 6.1.A.1 Total Transfers (pounds/year*) (enter range code** or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
| NA | |

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*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

| | | | | | | | |
|---|--|--|--------------------------------------|--------|--|--|------------------|
| EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED) | | | | | | TRI Facility ID Number | |
| | | | | | | 99352SDPRTPOBOX | |
| | | | | | | Toxic Chemical, Category or Generic Name | |
| | | | | | | Propylene | |
| SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS | | | | | | | |
| 6.2.1 Off-Site EPA Identification Number (RCRA ID No.) | | | | | | | |
| Off-Site Location Name | | | | | | NA | |
| Off-Site Address | | | | | | | |
| City | | State | | County | | Zip | Country (Non-US) |
| Is location under control of reporting facility or parent company? | | | | | | [] Yes [] No | |
| A. Total Transfers (pounds/year*) (enter range code** or estimate) | | | B. Basis of Estimate (enter code) | | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) | | |
| SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY | | | | | | | |
| [X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category. | | | | | | | |
| a. General Waste Stream (enter code) | | b. Waste Treatment Method(s) Sequence [enter 3-character code(s)] | | | d. Waste Treatment Efficiency Estimate | | |

EPA Form 9350-1 (Rev. 03/2009) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

| | |
|--|---|
| <p>EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)</p> | <p>TRI Facility ID Number 99352SDPRTPOBOX</p> <p>Toxic Chemical, Category or Generic Name Propylene</p> |
|--|---|

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES
 Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.
 Energy Recovery Methods [enter 3-character code(s)]

SECTION 7C. ON-SITE RECYCLING PROCESSES
 Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.
 Recycling Methods [enter 3-character code(s)]

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| | | Column A Prior Year (pounds/year*) | Column B Current Reporting Year (pounds/year*) | Column C Following Year (pounds/year*) | Column D Second Following Year (pounds/year*) |
|--------|--|--|---|--|--|
| 8.1 | | | | | |
| 8.1a | Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills | NA | NA | NA | NA |
| 8.1b | Total other on-site disposal or other releases | 250 | 250 | 250 | 250 |
| 8.1c | Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills | NA | NA | NA | NA |
| 8.1d | Total other off-site disposal or other releases | NA | NA | NA | NA |
| 8.2 | Quantity used for energy recovery onsite | NA | NA | NA | NA |
| 8.3 | Quantity used for energy recovery offsite | NA | NA | NA | NA |
| 8.4 | Quantity recycled onsite | NA | NA | NA | NA |
| 8.5 | Quantity recycled offsite | NA | NA | NA | NA |
| 8.6 | Quantity treated onsite | NA | NA | NA | NA |
| 8.7 | Quantity treated offsite | NA | NA | NA | NA |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | 0 | | | |
| 8.9 | Production ratio or activity index | 1.72 | | | |
| 8.10 | Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11. | | | | |
| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | | |
| 8.10.1 | NA | | | | |
| 8.11 | If you wish to submit additional optional information on source reduction, recycling, or pollution control activities, check "Yes." | | | Yes <input checked="" type="checkbox"/> | |

EPA Form 9350-1 (Rev. 03/2009) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year

TRI Facility ID Number

99352SDPRTPOBOX

Toxic Chemical, Category or Generic Name

Propylene

Additional optional information on source reduction, recycling, or pollution control activities.

PROPYLENE WAS REPORTED IN 2004 AND 2005, BUT NOT REPORTED IN 2006, AS THE ANCILLARY USE HAD DROPPED BELOW THE REPORTING THRESHOLD OF 10,000 POUNDS. THE THRESHOLD WAS EXCEEDED AGAIN IN 2007 AND 2008. THE ACTIVITY INDEX WAS REPORTED BASED ON COMPARISON OF LABOR HOURS EXPENDED IN 2008 COMPARED TO 2007.

APPENDIX A
REPORTING CODES AND DEFINITIONS

APPENDIX A
Reporting Codes and Definitions

**Section 4. Maximum Amount of the Toxic Chemical On-Site
at Any Time During the Calendar Year**

| <u>Weight Range in Pounds</u> | | |
|-------------------------------|-------------|----------------|
| Range Code | From... | To... |
| 01 | 0 | 99 |
| 02 | 100 | 999 |
| 03 | 1,000 | 9,999 |
| 04 | 10,000 | 99,999 |
| 05 | 100,000 | 999,999 |
| 06 | 1,000,000 | 9,999,999 |
| 07 | 10,000,000 | 49,999,999 |
| 08 | 50,000,000 | 99,999,999 |
| 09 | 100,000,000 | 499,999,999 |
| 10 | 500,000,000 | 999,999,999 |
| 11 | 1 billion | over 1 billion |

**Section 5. Quantity of the Toxic Chemical Entering Each Environmental Medium Onsite and
Section 6. Transfers of the Toxic Chemical in Wastes to Off-Site Locations**

Basis of Estimate

- M1: Estimate is based on continuous monitoring data or measurements for the EPCRA section 313 chemical as transferred to an off-site facility.
- M2: Estimate is based on periodic or random monitoring data or measurements for the EPCRA section 313 chemical as transferred to an off-site facility.
- C: Estimate is based on mass balance calculations, such as calculation of the amount of the EPCRA section 313 chemical in waste streams entering and leaving process equipment.
- E1: Estimate is based on published emission factors, such as those relating release quantity to through-put or equipment type (e.g., air emission factors).
- E2: Estimate is based on site-specific emission factors, such as those relating release quantity to through-put or equipment type (e.g., air emission factors).
- O: Estimate is based on other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgment.

Section 6. Transfers of the Toxic Chemical in Wastes to Off-Site Locations

Type of Waste Disposal/Treatment/Energy Recovery/Recycling

| | | <u>Disposal</u> | |
|-----|---|-----------------|---|
| M10 | Storage Only | M73 | Land Treatment |
| M41 | Solidification/Stabilization-Metals and Metal Category Compounds only | M79 | Other Land Disposal |
| M62 | Wastewater Treatment (Excluding POTW) -- Metals and Metal Category Compounds only | M81 | Underground Injection to Class I Wells |
| M64 | Other Landfills | M82 | Underground Injection to Class II-V Wells |
| M65 | RCRA Subtitle C Landfills | M90 | Other Off-Site Management |
| M66 | Subtitle C Surface Impoundment | M94 | Transfer to Waste Broker -- Disposal |
| M67 | Other Surface Impoundments | M99 | Unknown |

Type of Waste Disposal/Treatment/Energy Recovery/Recycling (continued)

| <u>Treatment</u> | |
|------------------------|--|
| M40 | Solidification/Stabilization |
| M50 | Incineration/Thermal Treatment |
| M54 | Incineration/Insignificant Fuel Value |
| <u>Energy Recovery</u> | |
| M56 | Energy Recovery |
| M20 | Solvents/Organics Recovery |
| M24 | Metals Recovery |
| M26 | Other Reuse or Recovery |
| <u>Recycling</u> | |
| M61 | Wastewater Treatment (Excluding POTW) |
| M69 | Other Waste Treatment |
| M95 | Transfer to Waste Broker — Waste Treatment |
| M92 | Transfer to Waste Broker — Energy Recovery |
| M28 | Acid Regeneration |
| M93 | Transfer to Waste Broker — Recycling |

Section 7A. On-Site Waste Treatment Methods and Efficiency

| <u>General Waste Stream</u> | <u>Waste Treatment Efficiency Range Codes</u> |
|---|---|
| A: Gaseous (gases, vapors, airborne particulates) | E1= Greater than 99.9999 % |
| W: Wastewater (aqueous waste) | E2= Greater than 99.99%, but less than 99.9999 % |
| L: Liquid waste streams (non-aqueous waste) | E3= Greater than 99%, but less than 99.99 % |
| S: Solid waste streams (including sludges and slurries) | E4= Greater than 95%, but less than 99 % |
| | E5= Greater than 50%, but less than 95 % |
| | E6= Equal or greater than 0%, but less than or equal to 50% |

Waste Treatment MethodsAir Emissions Treatment

- A01 Flare
- A02 Condenser
- A03 Scrubber
- A04 Absorber
- A05 Electrostatic Precipitator
- A06 Mechanical separation
- A07 Other Air Emission Treatment

Chemical Treatment

- H040 Incineration – thermal destruction other than use as a fuel
- H071 Chemical reduction with or without precipitation
- H073 Cyanide destruction with or without precipitation
- H075 Chemical oxidation
- H076 Wet air oxidation
- H077 Other chemical precipitation with or without pre-treatment

Biological Treatment

- H081 Biological treatment with or without precipitation

Physical Treatment

- H082 Adsorption
- H083 Air or steam stripping
- H101 Sludge treatment and/or dewatering
- H103 Absorption
- H111 Stabilization or chemical fixation prior to disposal
- H112 Macro-encapsulation prior to disposal
- H121 Neutralization
- H122 Evaporation
- H123 Settling or clarification
- H124 Phase separation
- H129 Other treatment

DISTRIBUTION

Required Offsite Recipients (Electronic Submittal Only)

U. S. Environmental Protection Agency
TRI Data Processing Center
c/o Computer Sciences Corporation
Suite 300
8400 Corporate Drive
Landover, MD 20785-2294

State of Washington, Department of Ecology
Hazardous Waste/Toxics Reduction Program
Post Office Box 47659
Olympia, WA 98504-7659
Ms. Idell Hansen

Other Offsite Recipients

U. S. Department of Energy
Office of Nuclear Safety and Environmental Policy, HS-21
1000 Independence Avenue, SW
Washington, DC 20585
Ms. Jane Powers

Required Onsite Recipients

MSIN

U.S. Department of Energy, Office of River Protection
G. M. Neath

H6-60

U.S. Department of Energy, Pacific Northwest Site Office
T. L. Aldridge

K9-42

U.S. Department of Energy, Richland Operations Office

R. J. Corey
D. E. Jackson
S. R. Weil
DOE Public Reading Room

A5-14

A5-15

A5-15

H2-53

Advanced Technologies and Laboratories International, Inc.

A. K. Biggs
J. Hwang
C. R. Neff

T6-50

T6-10

T6-50

AdvanceMed Hanford

C. J. Harrington

G3-70

Bechtel National, Inc.

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