



**Duratek™**

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IW017

June 27, 2008

Ms. Margaret Doane, Director  
Office of International Programs  
U.S. Nuclear Regulatory Commission  
Mail Stop 4 E21  
Washington, D.C. 20555-0001

Dear Ms. Doane:

Below are responses (in blue text) to your questions posed in the letter of May 28, 2008. The data has been culled from our tracking database, and as such, no additional attachments are necessary. Values are rounded to 3 significant digits.

- 1) To date, how much of the following has been imported under IW017 to the Oak Ridge, Tennessee facility for processing:

a) ferrous and/or non-ferrous metals;	45,600 lbs (20,700 kgs)
b) dry activity material (e.g., wood, paper, and plastic)	85,400 lbs (38,800 kgs)
c) liquids (e.g., aqueous and organic based fluids)	525,000 lbs (239,000 kgs)

An additional 88,100 pounds (40,000 kgs) remains to be sorted into the above categories, and is a combination of dry, active material and metals.

- 2) Of the materials that have been imported to date, how much of each has been:

a) recycled for beneficial reuse;	12,900 lbs (5,860 kgs)
b) decontaminated and appropriately released for authorized uses;	0
c) conditionally released to authorized RCRA Subtitle D landfills; or	464 lbs (211 kgs)
d) otherwise used as described in the application for IW017?	610,000 lbs (277,000 kgs) -- by incineration--

As noted above, 88,100 pounds (40,000 kgs) remains to be sorted and has not yet been processed

3) Of the materials that have been imported to date, how much of each has:

a) not conformed to specifications in the application;	0
b) not been released or processed in accordance with the licensee's domestic licenses; or	88,100 lbs (40,000 kgs)
c) not been deemed to be licensee's waste under its domestic licenses?	0

**Response note:**

**No non-conforming materials have been identified in the materials processed to date, and none are anticipated. Note that metals recycling is not continuously operated; the next melt cycle is scheduled for the fall of 2008. All materials queued for processing are being stored in accordance with provisions of our Tennessee Radioactive Materials Licenses.**

4) To date, how much material imported under IW017 has been exported to Canada under XWOI 0 (Enclosure 3)?

**Response:**

**As of June 18, 2008, none of the imported material has been exported back to Canada.**

5) According to page 7 of Attachment 1 of the April 10, 2006 letter, Duratek stated that residual radioactive material from processing the imported material such as floor sweepings, booties, slag, ash, decontaminated solution and abrasions, etc. which is attributable to Duratek under its Tennessee license, will be disposed of in accordance with Duratek's procedures and applicable license conditions and permits. To date, how much "residual radioactive material" has been disposed of under IW017 and at which facility (ies)?

**Response:**

- **No material directly attributed to IW017 has been disposed as Low Level Radioactive Waste.**
- **Approximately 464 pounds (211 kgs) of material was found to be free of detectable radioactivity and disposed of as conditionally released solid waste (but not as "residual radioactive material"). Under our licensed program, we are the generator of this solid waste.**
- **Part of the technical basis for our ash attribution model stems from the high variability in volume and mass reduction factors derived from our continuous-feed incineration process. We estimate the incineration of the 610,000 lbs (277,000 kgs) of material (including liquids for cooling) generated < 7000 lbs (3200 kgs) of residuals. This represents < 1% of the total ash generated during 2007 and 2008 year-to-date, the period during which the materials of interest were incinerated.**

6) Of the material imported under IW017, how much has been disposed of at the EnergySolutions Clive, Utah disposal facility?

**Response:**

**No material directly attributed to IW017 has been disposed as Low Level Radioactive Waste.**

7) Please provide information regarding how much additional material imported under IW017 will be disposed of at Clive, Utah.

**Response:**

**No material directly attributed to IW017 will be disposed at Clive, Utah.**

Please contact me if you require additional information.

Sincerely,



Philip Gianutsos, CHP  
Radiation Safety Officer

cc: Brooke, Smith, USNRC  
Janice Owens, USNRC  
Tye Rogers, EnergySolutions