

December 20, 2007

Mr. Mark Ledoux
EnergySolutions
423 West 300 South
Suite 200
Salt Lake City, UT 84101

SUBJECT: SUPPLEMENTAL REQUEST FOR ADDITIONAL INFORMATION (IW023
AND XW013)

Dear Mr. Ledoux:

The U.S. Nuclear Regulatory Commission (NRC) staff has conducted a preliminary review of your September 14, 2007, radioactive waste import and export license applications and your December 5, 2007, response to NRC's request for additional information dated November 29, 2007. We have developed a list of additional questions based on our preliminary review of your company's submittals. These questions were emailed to your company on December 13, 2007, to ensure you fully understood them.

During a conference call on December 19, 2007, representatives of your company stated that you understood the questions and could provide responses within 30 days. Therefore, our formal questions are enclosed.

If you cannot respond within 30 days, please contact Ms. Brooke Smith at (301) 415-2347 to negotiate a new response date.

Sincerely,

/RA/
Stephen Dembek, Branch Chief
Export Controls and International Organizations
Office of International Programs

cc: Brooke Smith
Carlotta Coates
James Shaffner, FSME
James Kennedy, FSME
Tye Roger, EnergySolutions

Enclosure:
As stated

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Supplemental Request for Additional Information
License Applications: IW023 & XW013

1. In EnergySolutions' December 5, 2007 response to NRC's question 4, EnergySolutions states, "No Class B, Class C or GTCC materials will be shipped to Utah. Since all the imported material will meet our licenses either at Bear Creek or Clive, none of the material will need to be returned to Italy." This response would seem to imply the possibility of long-term storage of Class B, C and GTCC waste at Bear Creek. The possibility of long-term storage is mentioned in the original application as well (Item 15, page 4, Processing section). Please clarify, the type, amount and activity of waste (if any) that will require long-term storage.
2. In EnergySolutions' December 5, 2007 response to NRC's question 7, EnergySolutions states, "Only about 8% (by volume) of total imported material is estimated to be disposed of at the Clive, Utah facility." This statement appears to contradict a statement in Block 15 in the application that suggests the waste is imported "primarily for processing and/or disposal in accordance with EnergySolutions existing Utah disposal license." Please address this apparent contradiction.
3. In EnergySolutions' December 5, 2007 response to NRC's question 8, EnergySolutions discusses the possible beneficial reuse of 7000 tons of metal as shielding material. EnergySolutions should provide some indication regarding the domestic market for the types and quantities of shielding that can be remanufactured from waste steel and moderator metals. Please identify any detailed information in the response to this request for which EnergySolutions requires confidentiality.
4. Throughout the original application and responses provided on December 5, 2007, there seems to be an implication that some waste that may otherwise be classified as class B or C can and will be processed to meet the Clive, Utah waste acceptance criteria (WAC). If this is the case, it suggests an increase in the volume of waste to be disposed of. Please clarify EnergySolutions intentions and likely volume impact regarding processing of Class B and C waste to meet the Clive WAC.
5. The application and December 5, 2007 responses are fairly consistent in identifying three major waste streams: 7000 tons of metal, 5000 tons of DAW, and 8000 tons of liquid, or wet, waste. (An average density of 40 pounds per cubic foot is used to estimate volume although these three waste streams individually differ significantly from that average density.) The information provided by your company also indicates three distinct disposition pathways for the waste: recycle/reuse, disposal, and long-term storage. With the exception of metals, it is less clear with regard to the approximate percentage of each waste stream that ends up in each disposition pathway. Please provide clarification as to the likely disposition pathway of each major waste stream.

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6. Please describe the disposition of all Italian waste, including that which normally would be ascribed to the Bear Creek facility after processing. There are some conventions used in waste processing whereby the identity of the original generator disappears during processing because the waste becomes commingled (during incineration, e.g.). Please estimate the amount and method of Italian waste that will be dispositioned, including that which would normally be ascribed to the Bear Creek facility.

7. Please clarify whether any material that originates in Italy and imported into the United States will be disposed of in municipal landfills (non-NRC/non-Agreement State regulated) in the United States.