

WM2015 Conference Panel Report

PANEL SESSION 057: Nuclear Power Plant Waste Management – LLW Processor Issues

Session Co-Chairs: **Mark Lewis**, *EnergySolutions*
Clint Miller, *PG&E*

Panel Reporter: **Clint Miller**, *PG&E*

Panelists:

- **Mark Lewis**, *Cask Service, EnergySolutions*
- **Tammy Monday**, *VP Sales & Business Development, Perma-Fix Environmental Services*

Following introductions by the Co-chair, **Tammy Monday** opened the proceedings providing an over view of three Perma-Fix facilities. The Richland, Washington site has a Bulk Processing Unit for thermal treatment of LLRW, metal decon and super compaction services. The M&EC facility in Oak Ridge, Tennessee can treat solid mixed wastes. The DSSI facility in Kingston, Tennessee can treat liquid mixed wastes. Perma-Fix can ship the all the commercial disposal sites and NNS (for DOE).

Mark Lewis gave an over view of six Energy Solutions facilities. The Barnwell Processing facility is in South Carolina while the other five are in Tennessee. The Bear Creek facility has two incinerators, metal melt and a supercompactor. The old Molten metal/ ATG facility has been converted into a 5 year container storage facility. Energy Solutions thermally treats dry waste form Canada and Germany at Bear Creek and returns the ash to those nations. The facility has an EPA part B permit so oils and non-listed characteristic liquids can be thermally treated. The Gallaher Road facility provides clearance survey services (BSFR, GIC).

There are two facilities in Memphis. The old Hake facility has been used for large component segmentation projects and safe shop services. The old RACE/Studsvik facility was only recently purchased. The Erwin facility hosts the Thor (thermal resin) processing and resin blending services. Class A waste is shipped to Clive, UT while Class B/C waste is shipped to Texas in January 2014. This cell has concentration based limits which should ease assess.

Questions:

1- How is thermally processed residue attribution reported or manifested?

For Perma-Fix Northwest the BPU can package generators waste separately so it is manifested as the clients waste. For DSSI, so many clients ash fills a drum that this waste in manifested as processors waste.

For Bear Creek, the ash is manifested as processors waste except for ash returned to foreign nations. Resin residue from Erwin is also manifested and processors waste. Both facilities send a separate listing of clients that make up the ash for compliance with compact controls.