Progress Towards New Radioactive Waste Disposal Capacity in Texas

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WCS Basics

• Wholly owned subsidiary of Valhi, Inc. (NYSE: VHI)
• Began receiving waste in February 1997
• RCRA/TSCA Treatment, Storage & Disposal Facility
• RAD exempt disposal
• Class A, B, C, GTCC LLRW and TRU treatment and storage
• 111 employees
• Excellent road and rail access with a 110 rail-car capacity private rail spur on site
Current Authorizations and Capabilities

- Industrial Solid Waste and Hazardous Waste Storage, Processing, and Disposal (RCRA) Permit issued by the Texas Commission on Environmental Quality (TCEQ)
- Toxic Substances Control Act (TSCA) Authorization issued by the U.S. EPA
- LLW Treatment, Processing, and Storage License issued by the Texas Department of State Health Services (DSHS)
- U.S. NRC exemption to treat and store Special Nuclear Material (SNM) based on concentration – 17 µCi/gm Pu-239
- Increased possession limits – 35,000 curies of SNM and 150,000 curies of sealed sources
Storage

• No Time Limit on Storage (*RAD and LDR compliant*)
• 5,000 Drum [Equivalent] Container Storage Area
• 10-acre, 1,500,000 ft³ Low-Specific-Activity (LSA) storage area
• 1,080 ft³ Bulk/Bin Storage Area
Stabilization and Treatment

• A 5,600 ft² RCRA, CERCLA, and TSCA waste treatment/stabilization facility with two 85 yd³ mixing pans (photos 1 & 2)
• A 5,600 ft² negative-pressure mixed waste treatment facility (MWTF) with one 85 yd³ mixing pan and one double-containment structure (photos 3, 4 & 5)
Current Disposal Capabilities

- Current license allows for disposal of up to \(~5.4\text{M yd}^3\) of RCRA, CERCLA, TSCA, and exempt radioactive waste
- Total construction to date \(~750,000\text{ yd}^3\)
- \(~100,000\text{ yd}^3\) is still available/open
- Another \(250,000\text{ yd}^3\) is being developed
Aerial view of WCS site

1. Access road to fenced site (guarded entrance)
2. Admin. building with haz./rad. laboratories
3. Rail spur and rail-unloading facility
4. Container storage building
5. Bulk/Bin storage units
6. Stabilization and mixed waste treatment facility
7. RCRA Part C landfill (being expanded to the East)
8. 10-acre storage area for low-specific-activity waste
What’s New

Local Rail Improvements

• **Track Upgrade Project**
  – Funded through private capital and debt
  – Two-year, $4 million program
  – Designed to remove hazmat restriction and allow for safe 25 mph operation of trains

• **Plan/Status**
  – Install 500 ties/mile, complete to MP 67 past Eunice
  – Tamp and align track, complete to MP 40
  – Repair wooden bridges
  – Install additional 500 ties per mile in 2008
  – Build siding in Monahans for unit trains in 2008

• **Hazmat restriction removed** to Eunice, **25 mph track** from Monahans to Kermit, 25 mph track to Eunice in July

• **Locomotive upgrade** underway with three 3,900 hp units replacing older 1,500-2,500 hp units
Expanded Administration Building
Storage of Class B/C Waste

- Studsvik Teaming Agreement
- Turn-key treatment & storage
- In-ground storage vault

This is rough for now, I'm in the process of fixing.
Pending Disposal Authorizations

- License for disposal of Texas Compact generated Class A/B/C LLW
- License for disposal of federally-generated Class A/B/C LLW and Mixed LLW
- License for disposal of 11e(2) By-Product Material
Texas LLRW Legislation

- License can be issued to private company
- Compact facility
  - Compact only – new Compact members or contract
  - Regulated rates
  - State takes title to waste upon acceptance
- Federal facility
  - Fed waste under LLWPA
  - Initially 3 million yd3 with 10% Class B, C, and high A
  - Increases to 6 million yds after 5 years
  - Need written agreement that feds will assume title
- Class B, C, and high A in concrete canisters in containment structure and must be monitored and retrievable
- 5% fee of gross revenue to both county and state
Existing and Proposed Landfill Locations

11e.(2) byproduct material

Federal LLW/MLLW

RCRA, CERCLA, TSCA, and exempt radioactive waste

Proposed RCRA Expansion Location

Texas Compact LLW
Schematic Cross Section of LLW Landfill

No Scale
Vision of the Future

**Licensing Initiatives**

- **Replied to 6/30/06 TCEQ Letter 3/16/07**
  - **Final License 10/1/07**
  - **12 Month Public Hearing Process**
  - **Draft License 10/1/07**
  - **Hearing request 1/28/08**
  - **LLRW Disposal License**
  - **2/15/09**
  - **Resume Review 6/22/07**
  - **Complete Review 4/14/08**
  - **Proposal for Decision 11/15/08**
  - **Public Comment 12/15/07**
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  - **TDSHS Recommendation 10/1/07**
  - **Response on 5/18/07**
  - **Final License 12/31/08**
  - **Commence Disposal 4/1/09**
  - **Final submission 5/1/07**
  - **Match LLRW Timeline**
  - **Resume Review 6/22/07**

**2007**
- Q-1
- Q-2
- Q-3
- Q-4

**2008**
- Q-1
- Q-2
- Q-3
- Q-4

**2009**
- Q-1
- Q-2
- Q-3
- Q-4

**2010**
- Q-1
- Q-2