

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 $\mu\text{Ci/gm}$ 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 (MWWF) 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 ~ 5.4M yd³ of RCRA, CERCLA, TSCA, and exempt radioactive waste
- Total construction to date ~ 750,000 yd³
- ~100,000 yd³ is still available/open
- Another 250,000 yd³ 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

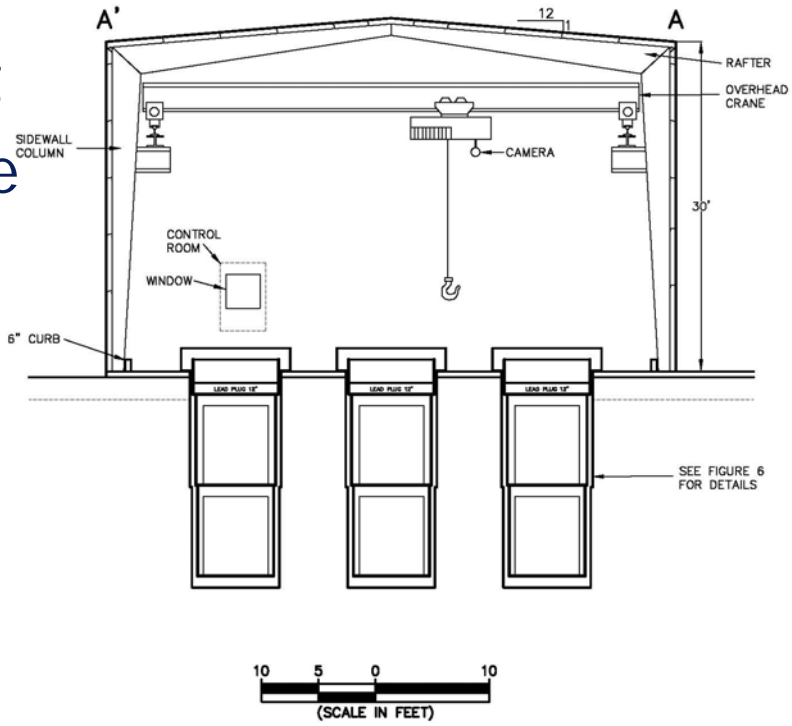
Expanded Administration Building



This is rough for now, I'm in the process of fixing

Storage of Class B/C Waste

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



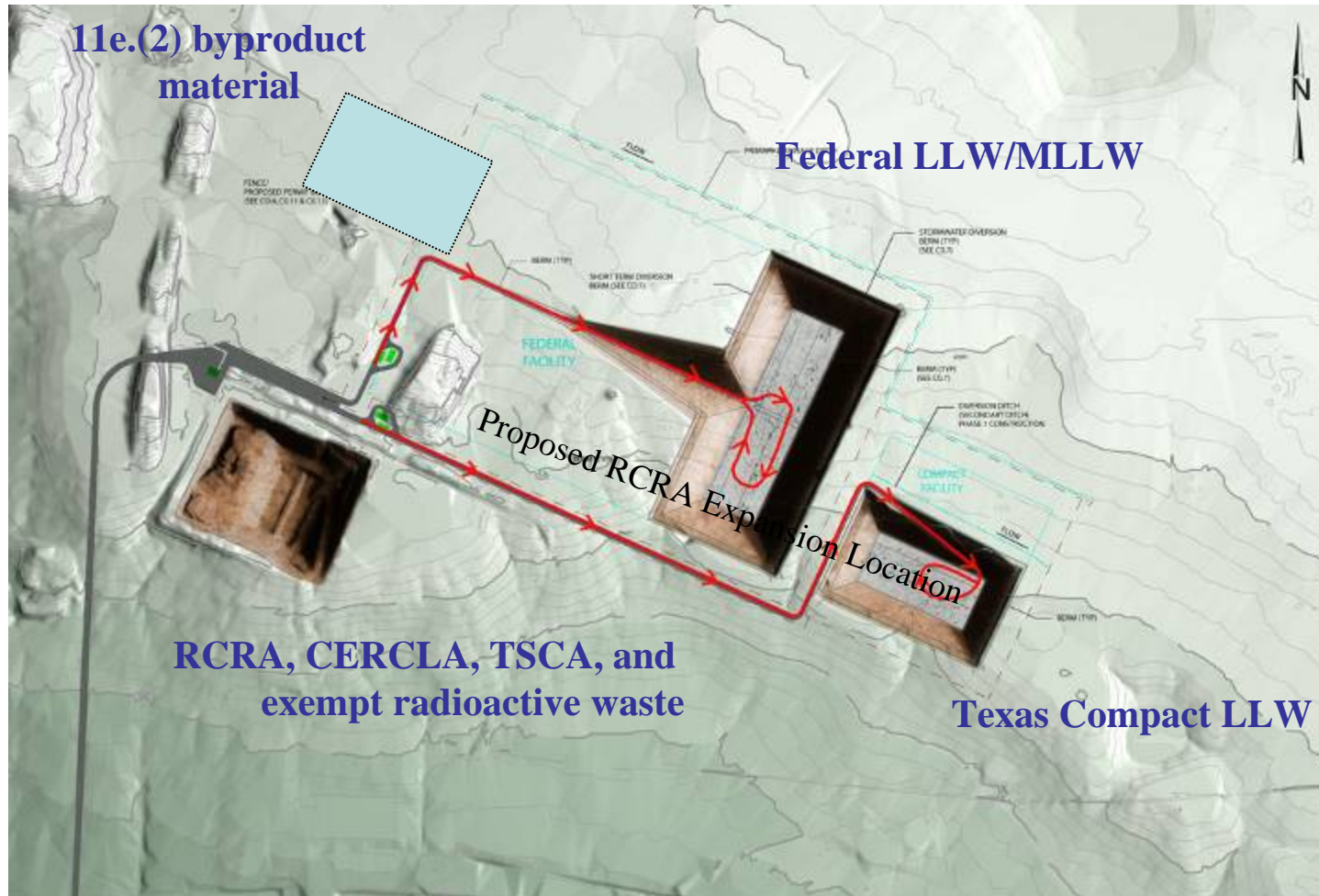
Pending Disposal Authorizations

- 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



Schematic Cross Section of LLW Landfill

No Scale



Vision of the Future

Licensing Initiatives

