Women In Construction
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Waste Treatment Plant Project Manager
Office of River Protection

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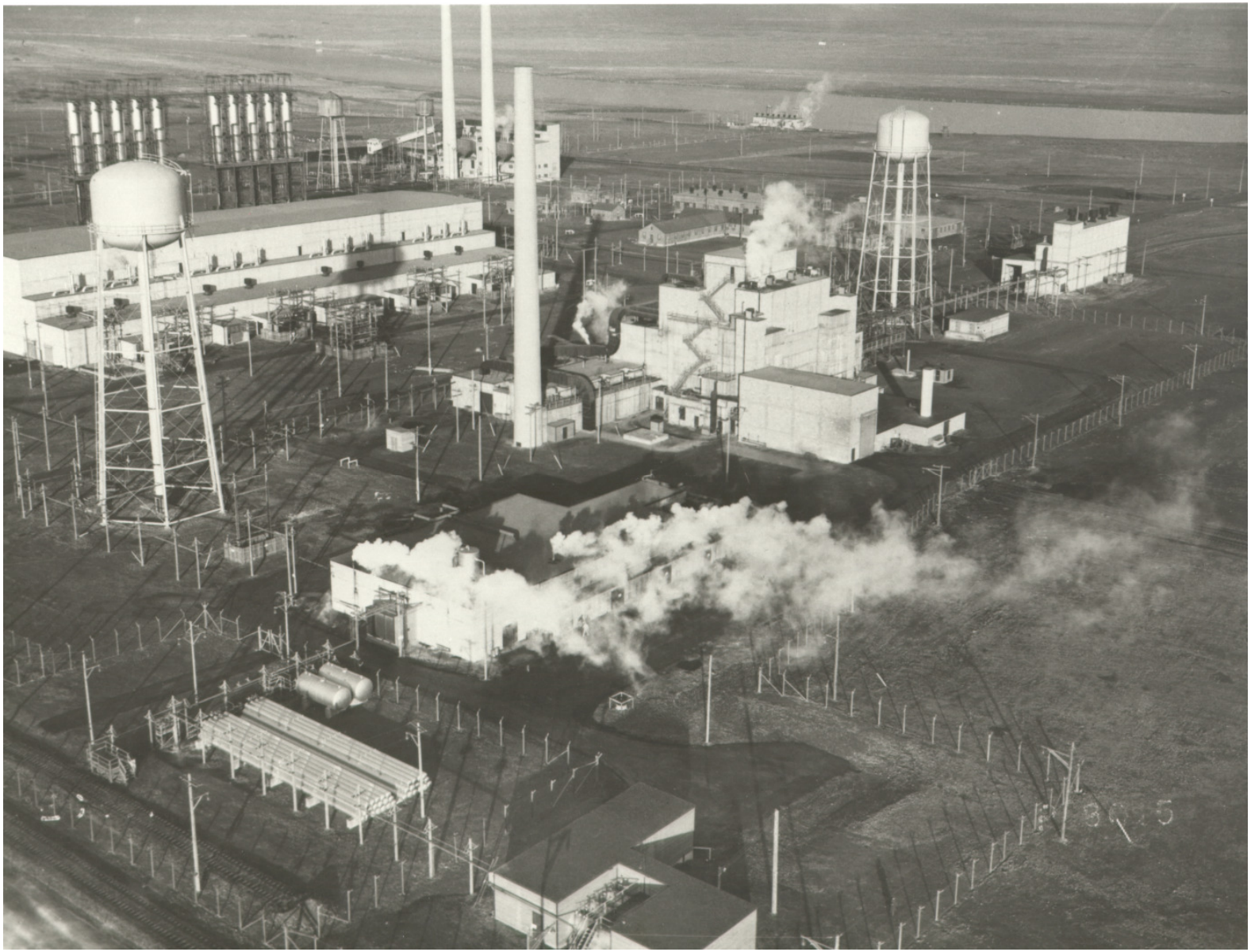
CH2MHILL Hanford Group, Inc.

Bechtel National, Inc.

Washington Group International

Hanford's B Reactor, as it stood in 1945

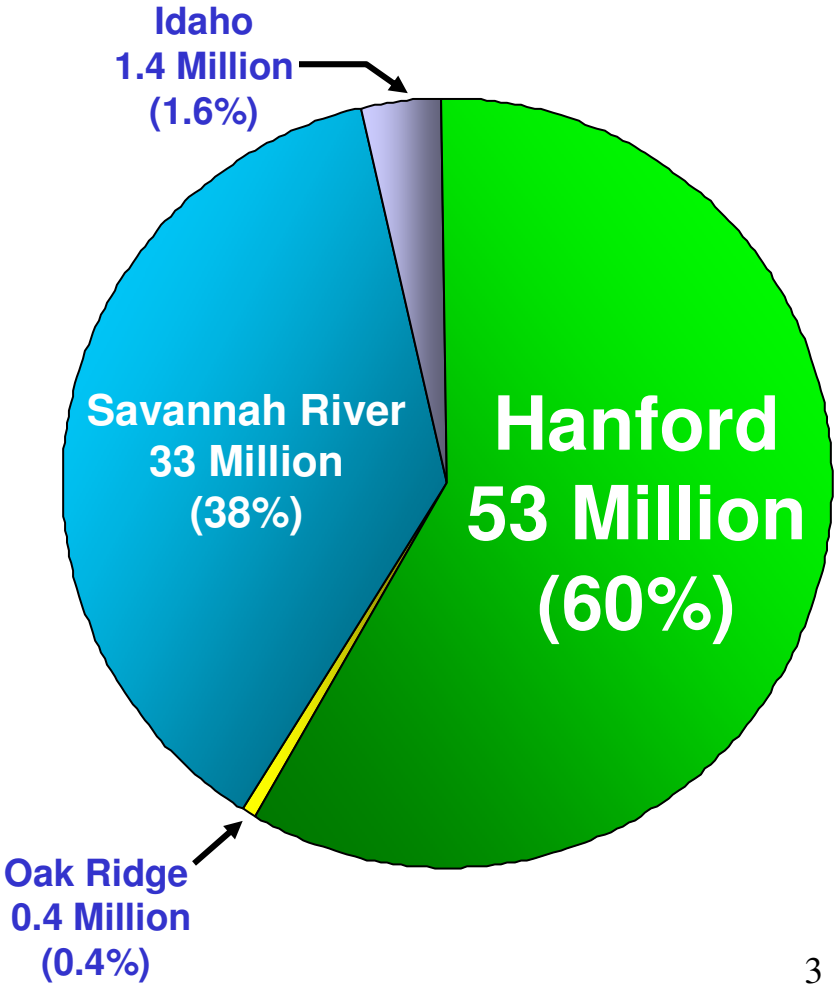


Hanford Tank Waste Cleanup Challenge

Hanford has:

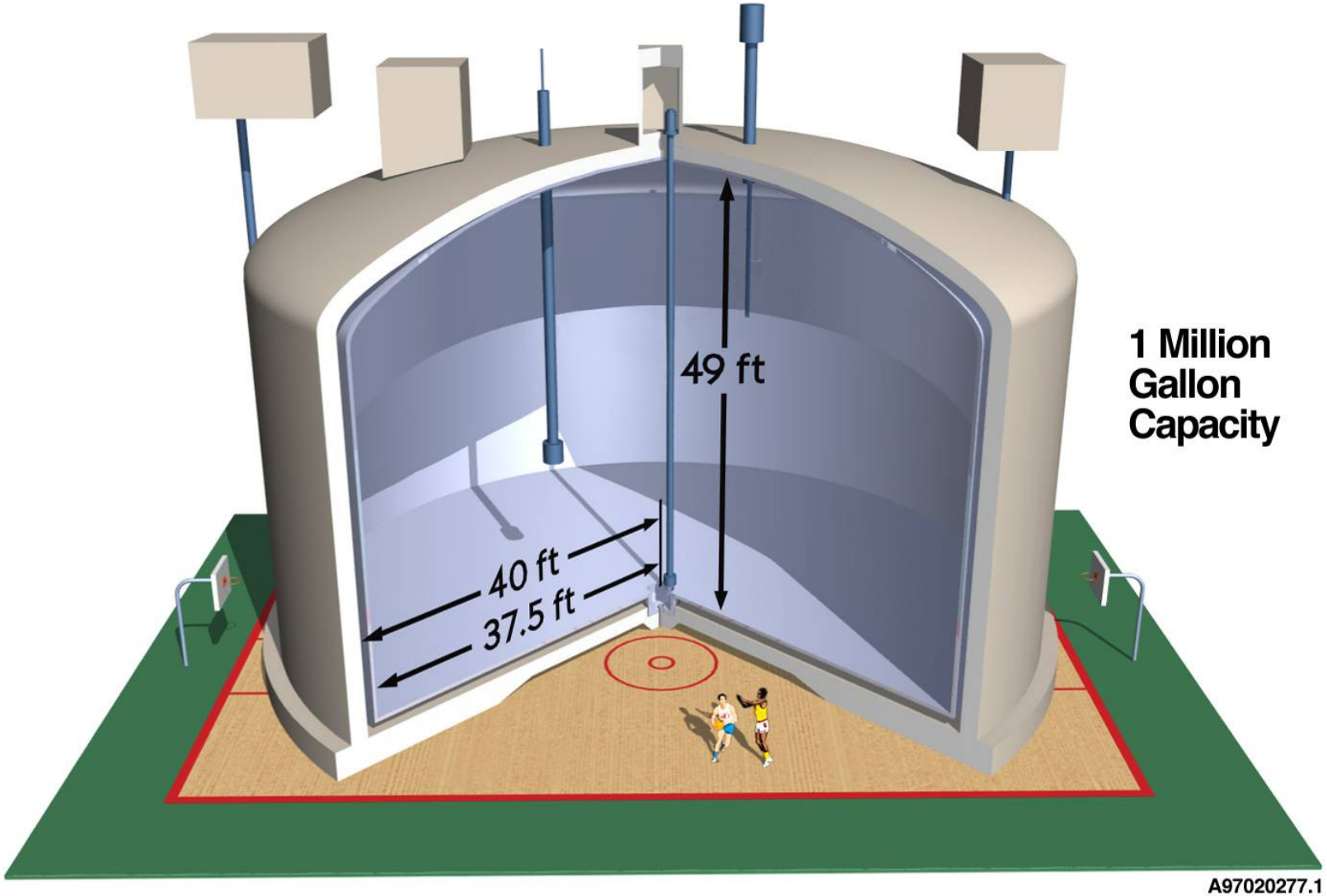
- 63% of DOE tanks; 80% of DOE single-shell tanks
- 60% of DOE total tank waste
- ~194 million curies of radioactivity in tanks (148 million already removed)
- ~190,000 tons of chemicals

Total Number of Gallons in Waste Tanks at DOE Sites:

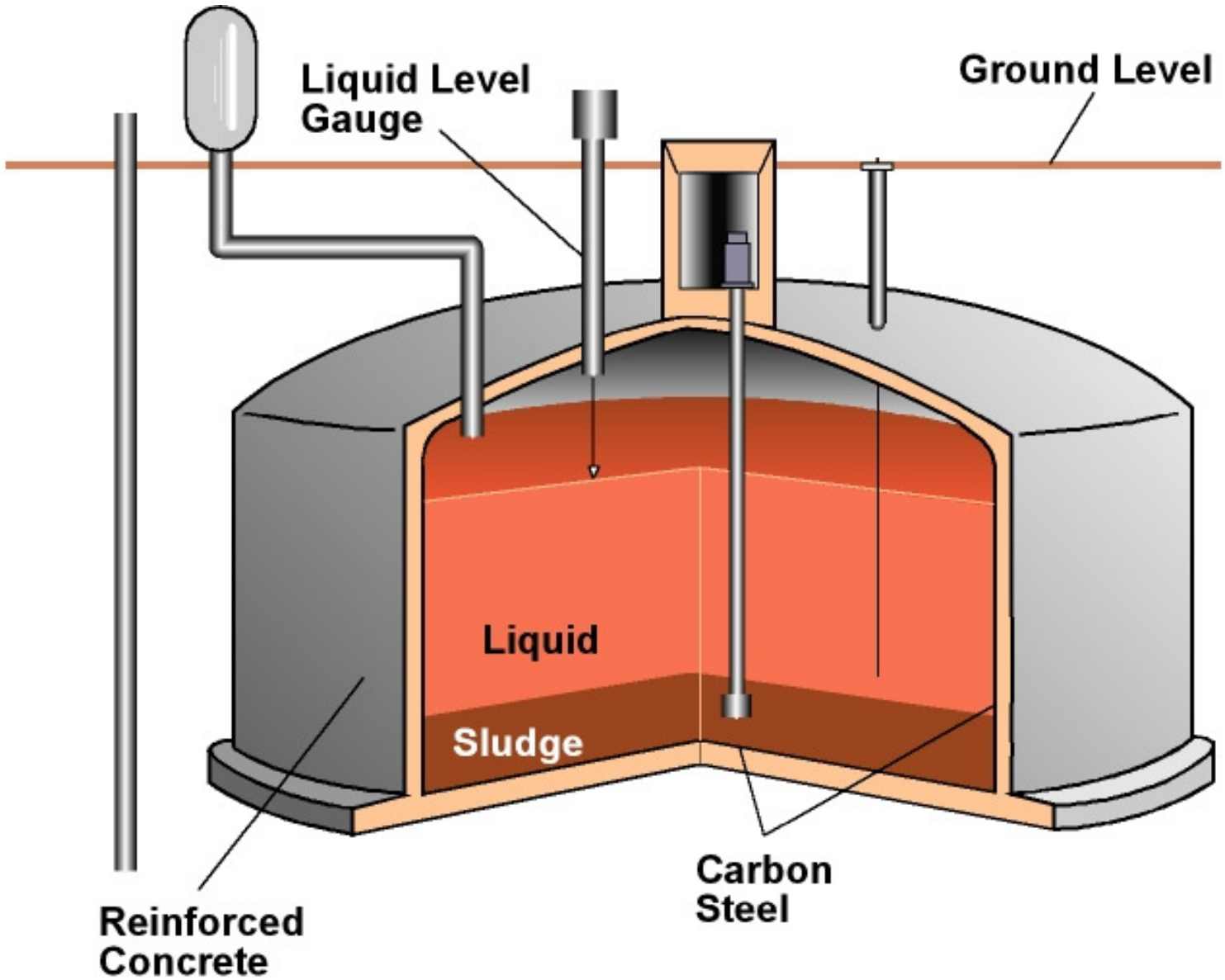


Double-Shell Tanks under construction

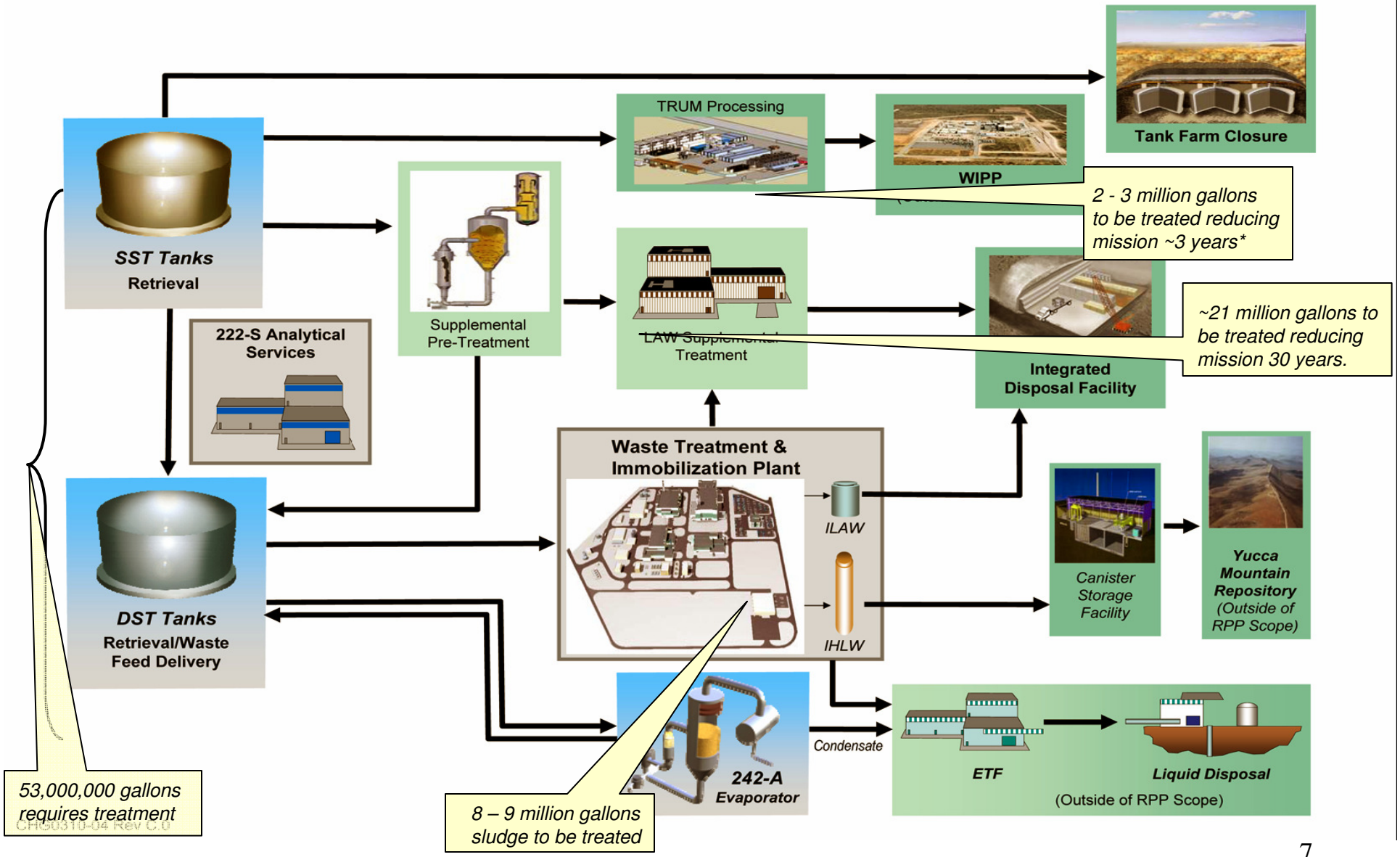
Double-Shell Tank



Single-Shell Tank

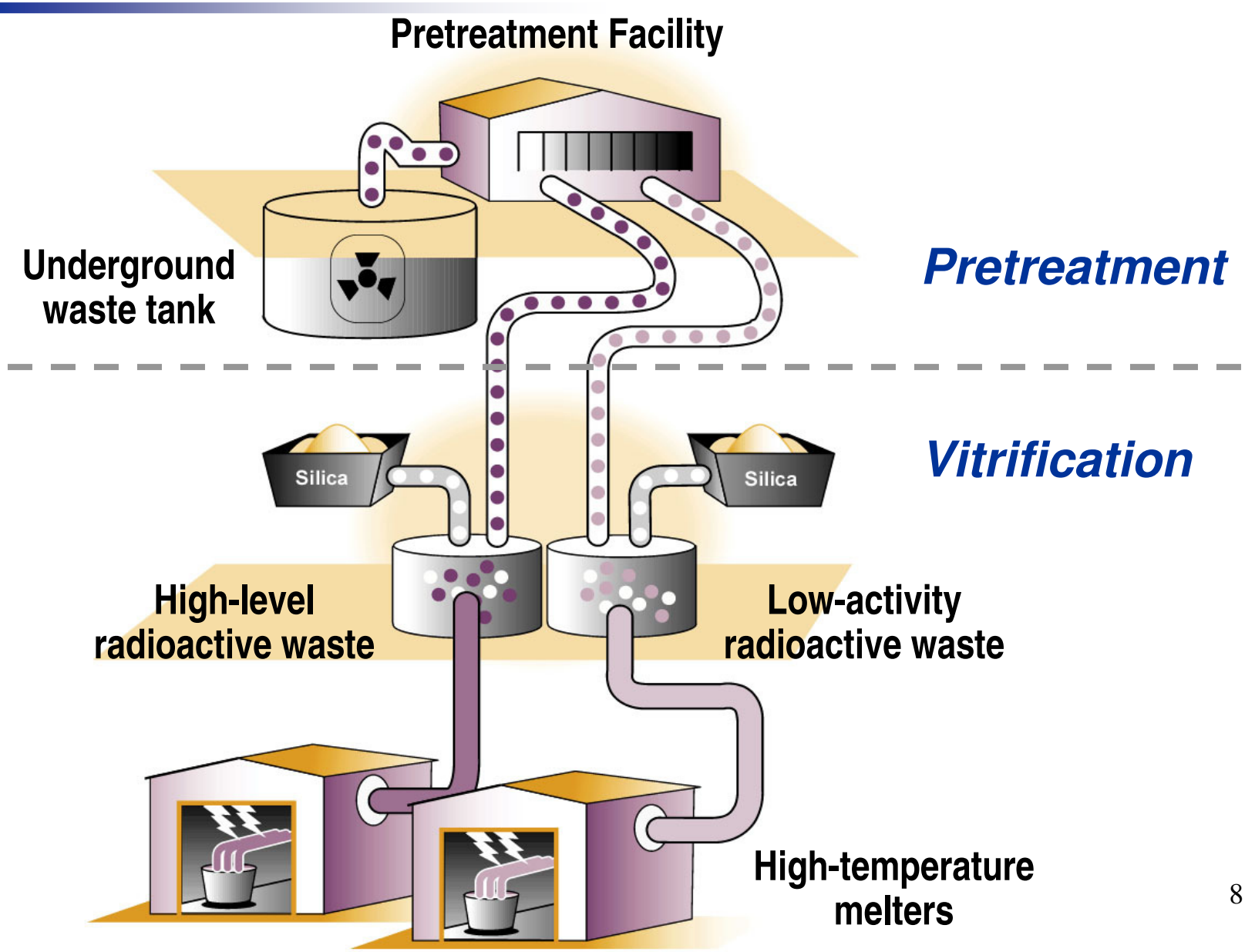


River Protection Project Mission



*A decision for disposal at the Waste Isolation Pilot Plant (WIPP) will not be made until (1) the waste meets the WIPP Waste Acceptance Criteria, with special emphasis on the waste determination as delineated in the WIPP recertification decision by the Environmental Protection Agency in March 2006; and (2) it meets the regulatory eligibility requirements for disposal as described in the WIPP Hazardous Waste Facility Permit.

Waste Treatment Process



How is the Vitrified Waste Stored?

High Level Waste Canisters

- 2’ X 14.5’
- 6,600 pounds of glass
- Temporarily stored in Hanford’s Canister Storage Building until national repository built

Low Activity Waste Containers

- 4’ X 7.5’
- 13,000 pounds of glass
- Stored at Hanford’s Central Plateau

WTP Facilities

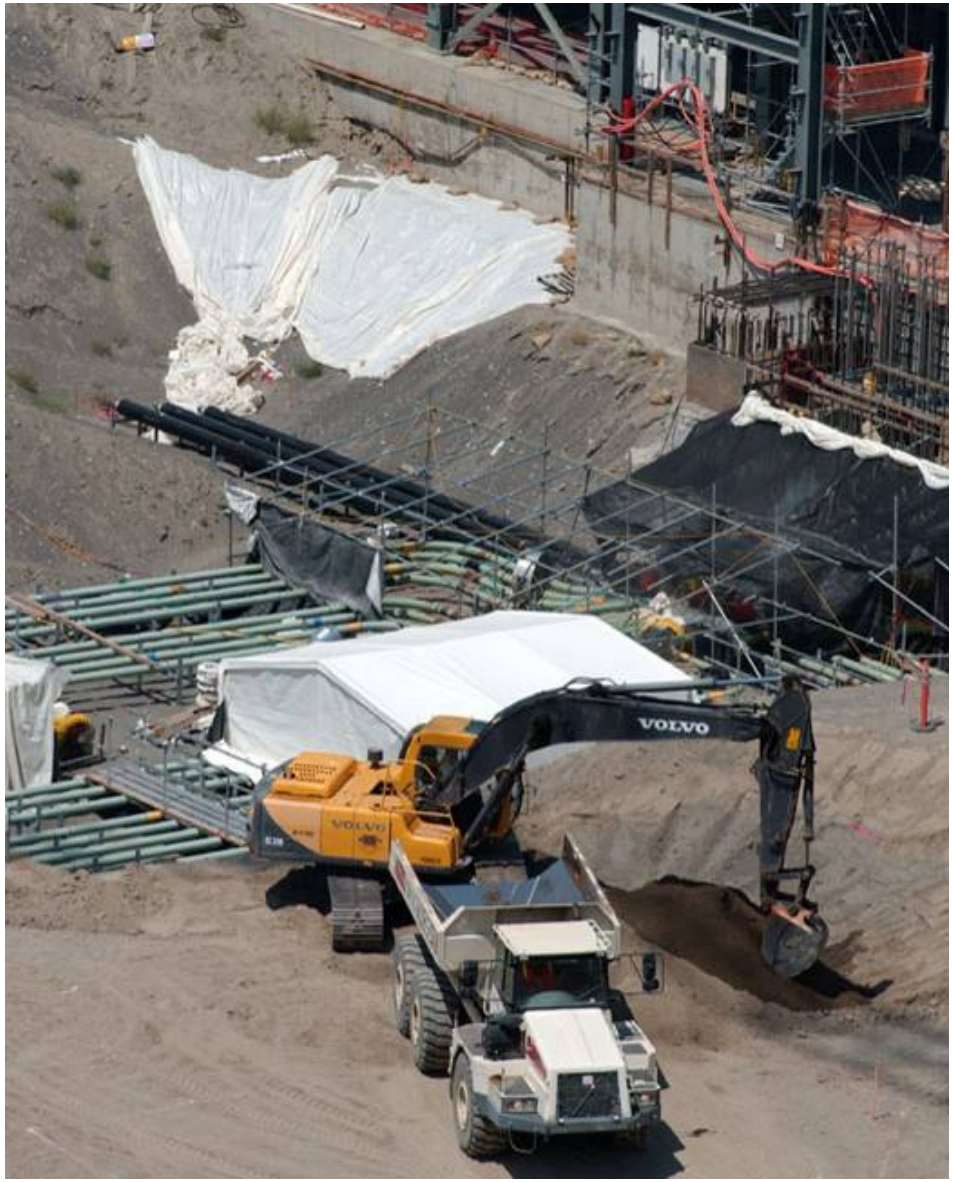
Raising of LAW stack

Raising of LAW stack

Prepping roof on LAW

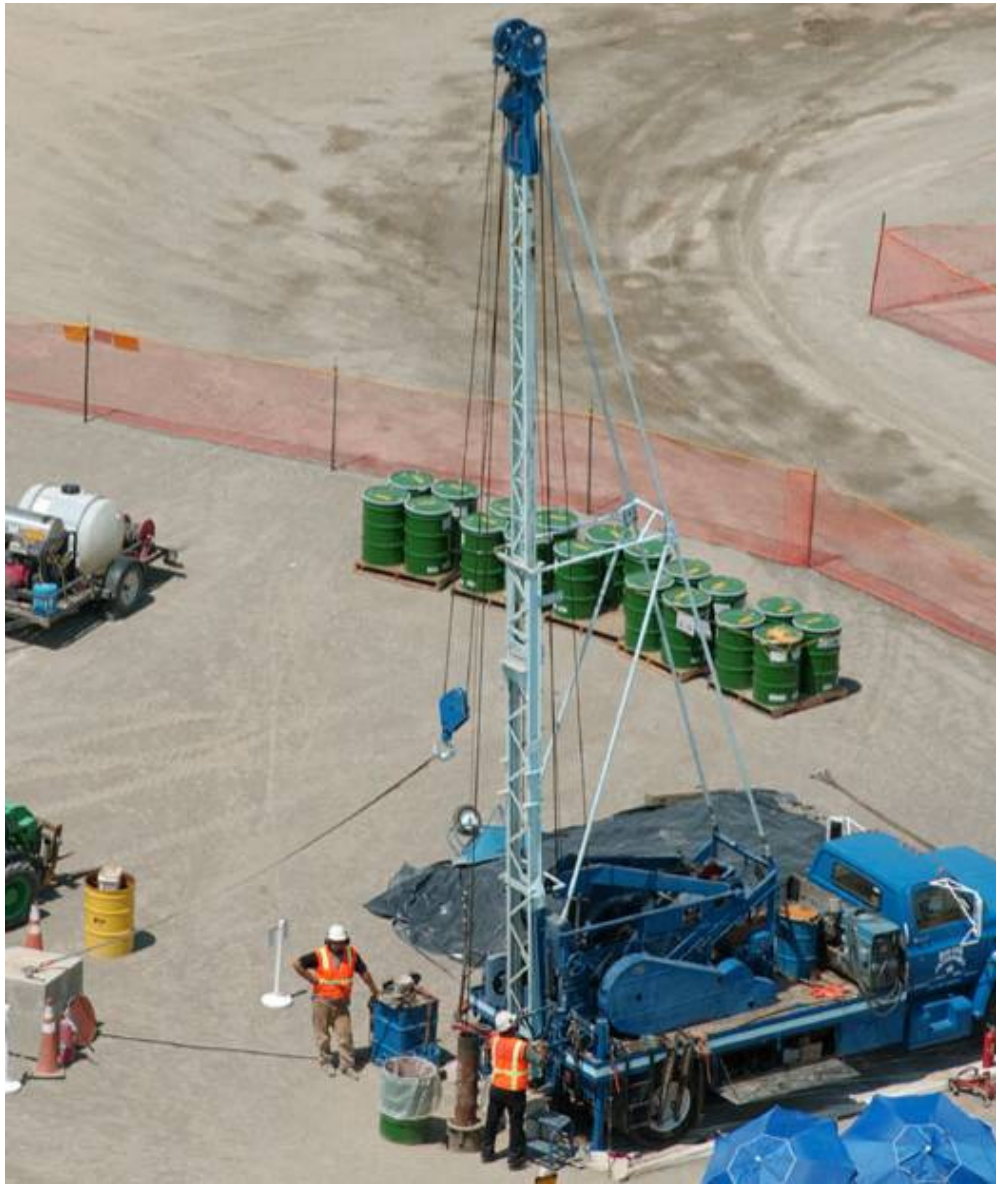
Dismantling of LAW Tower Crane

Excavation on PreTreatment Facility



Final placement of LAB basemat

Borehole drilling on WTP site for seismic analysis



Steam Plant

Water Treatment Building Tanks

Chiller Compressor Plant

Cooling Tower Facility