

Process Engineering and Development



Pacific Northwest
National Laboratory

Operated by Battelle for the
U.S. Department of Energy

Environmental Technology Directorate

Evaluating promising scientific discoveries on the bench and pilot scales, with a focus on developing energy and material balances and process flowsheets; preliminary process economics; and equipment and systems demonstration.

Clients

Hanford Contractors

- Waste Treatment Plant
- Plutonium Finishing Plant
- K Basins

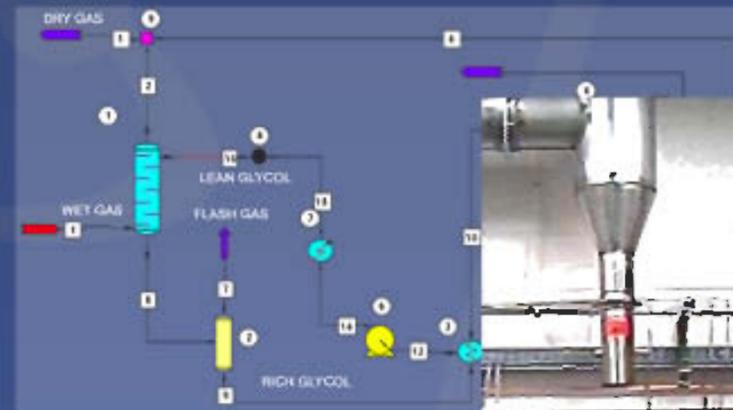
U.S. Department of Energy

- Energy Efficiency and Renewable Energy
 - Office of Biomass Program
- National Nuclear Security Administration

U.S. Customs and Border Protection Service

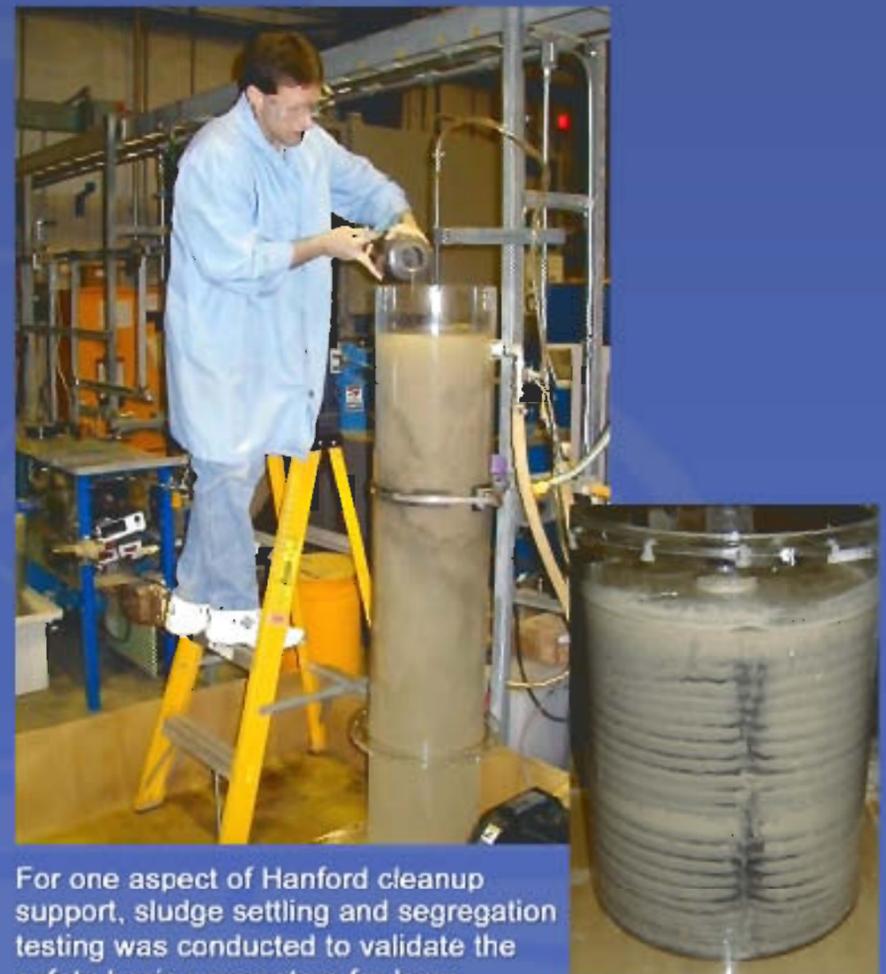
Industry

- Food and Agriculture
- Chemical
- Electronics



From flowsheet diagrams, to scale-up, to deployment, process engineering and development provides a conduit for taking science to application.

- Process Engineering
- Process Chemistry
- Agricultural Engineering
- Design and Drafting
- Process Scale-up
- Bench-scale and pilot-scale process testing
- Flowsheet modeling
- Economic evaluations
- Field deployment of first-of-a-kind processes



For one aspect of Hanford cleanup support, sludge settling and segregation testing was conducted to validate the safety-basis parameters for large-diameter container storage of sludge from the K East Basin.

For further information, contact:

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