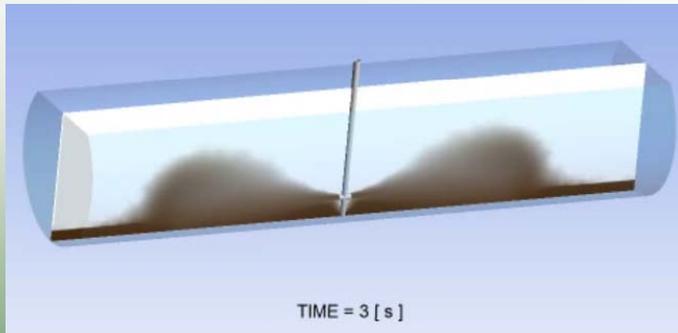
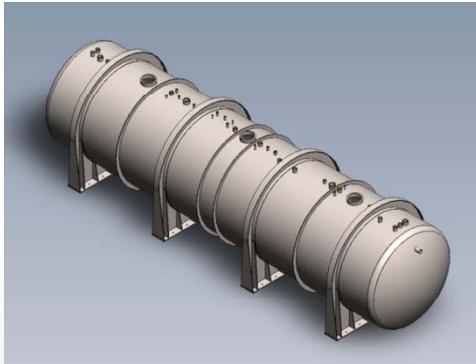


Modeling of Sludge Mixing

Modeling and Simulation Group

Computational Sciences & Engineering Division



Problem Statement:

- Radioactive sludges are stored in large horizontal tanks. Before the transuranic waste slurries can be transported to a processing plant, the supernatant and the sludge must be thoroughly mixed within the storage tanks. One approach is to use submerged liquid jets inside the storage tank.

Technical Approach:

- 3-D unsteady CFD calculations are being performed with CFX in order to estimate the mixing time and the quality of the mixing.

Benefit:

- The computational research results will assist in determining the capabilities of this mixing approach.

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