## CFD FTS MM 9.29.08

## CFD Flocculation Tank Simulation Meeting Minutes

## Fall 2008 Minutes

September 29, 2008

## Accomplishments

- Examined the significance of differing values of Gtheta calculated using different methods. (see below)
- Created mesh with three turns to determine how separation region interacts with the subsequent flow around a baffle.
- Obtained converged solution with three turns at $h=1.5$ width, and 50,000 cells.


## Metrics

G_ave*theta_ave=. 617
sum(theta_cell)=8217 sec (theta ave=8217/30000 cells)
Gave in cells=2.25
sum(G_cell*thetha_cell)=. 6698
thetha_system $=20 \mathrm{sec}$
G_thetha_max

## Outcomes

- The thetha values in stagnant/recirculating regions are very large. Thus when examining the sum of the theta values, the value is significantly higher than the Vtot/Q.
- Obtained Gtheta value is order 1, and we need to examine why this value is significantly smaller than expected.


## Issues

- Gtheta values did not correspond with what was expected.
- Difficulty with meshing the boundary layer

