

# Demonstration Plant Team

Detailed Task List

September 7, 2012

## Trip to Nepal

Done by Fall Break (October 5)

- Discuss any desired adjustments to the plant with Monroe
  - Water height level of entrance tank should be higher to make the chemical dose controller work better and be more visible
- Fit the entire plant in the smallest bag possible
  - Believe that a larger bag can fit all of the parts, rather than the two small ones we currently have
- Gather and pack all tools and spare parts needed
- Teach Monroe how to run and troubleshoot the plant with confidence!

## Frame Alternatives

Done by October 26

- Research and select a cheaper material to construct the frame
- The frame should remain easily collapsible

## Flocculator

Done by October 26

- Decide on the final dimensions of the flocculator
  - Currently it is longer than necessary, though making it smaller reduces spectator visibility
- Research ways of building more of them; this includes material selection and fabrication methods

- A new material/geometry may reduce the amount of flocs that settle, if designed correctly

## **Fabrication Methods**

Done by Nov 30

- Minimize machine shop time by reducing the number of parts that require it. The parts that currently require machining are:
  - Tanks (Stock, CHT, and Entrance)
  - SRSF (Main Column and Slotted Pipes)
- For parts that must be machined, streamline the machining process
- Build at least one more plant