



Innovation @ WSTF 2011

Component Services Clean Room Recycles, Reuses, and Reduces the use of Distilled Water



Component Services Employees Add Chemicals to the DI Water System



Component Services Employee Rinses a Component

The Component Services Clean Room uses the purity properties of distilled (DI) water to rinse components that will eventually interface with flight hardware. In processing one-gal of DI water for the Clean Room to use, three to four gal of water were routinely lost. The DI water used to rinse parts is currently discharged to the Hazardous Waste Treatment Unit, while the water needed to process the DI water goes down the drain.

To meet the sustainability factors of recycle, reuse, and reduce, a plan was developed by Component Services, the Environmental Department, and Facilities Operations to recycle the used DI water. To accomplish this, the used DI water will be re-injected into the DI water loop, and the reject water used to process the DI water will be sent to the facility's cooling towers or boilers.

Today, the waste DI rinse water is being sampled to see where it will be reintroduced into the DI water loop. Design and construction will begin in May 2011. An anticipated cost savings will be obtained by lowering the bill for electricity used to pump the water and a precious resource will no longer be wasted, but reused.

