

## **WebSAT Quarterly Report (October, 2005)**

**Title:** Development of an Industry Standardized Auditing and Surveillance Tool:  
Minimizing Maintenance Errors

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**Institution:** Clemson University

**Category:** Aviation Maintenance

**Project Status Category:** Green (G) – Indications are that the project is on track and will be completed as planned.

### **1.) Significant Milestones achieved as of October 31<sup>st</sup>, 2005:**

- Presented the technical audits module functionality to the Quality Assurance group at FedEx.
- Submitted WebSAT annual report on year 2 accomplishments to FAA.
- Generated personas and scenarios for the Technical audits module
- Developed methods to analyze qualitative data collected by WebSAT
- Developed methods for risk assessment to identify sources of variability
- Developed screen designs for the data analysis module of Technical audits
- Presented a paper titled "Use of Product Design Methodology to Develop the Technical Audit Prototype for WebSAT" to Proceedings of Safety across High-Consequence Industries Conference to be held at St.Louis, Missouri (September 22<sup>nd</sup>, 2005).

### **2.) Work in Progress from October 31<sup>st</sup> - January, 2006 (The dates in parentheses indicate the deliverable date):**

- Generate personas and scenarios for Internal Audit and Surveillance Modules (December, 2005).
- Embed data analysis module in Technical Audit prototype (December, 2005).
- Design Internal Audit Module (January, 2006).
- Design Surveillance Module (January, 2006).
- Develop the risk model for WebSAT (January, 2006).
- Validate WebSAT risk model using research methodologies (January, 2006).
- Validate WebSAT User-Interface design approach using research methodologies (January, 2006).
- Disseminate User-Interface design methodology identified from WebSAT research (February, 2006).
- Disseminate quantitative and qualitative data analysis techniques identified from WebSAT research (February, 2006).

### **3) Future delays in meeting milestones:**

- Conduct competitive benchmarking to evaluate metrics and establish target specifications.