

TSP Systems Modernization Update

July 20, 2009

Goals & Objectives Revisited

- Implement a robust, scalable, and survivable infrastructure with sufficient capacity to meet unexpected needs driven by crisis;
- Improve our processes and capabilities to ensure that all system changes are thoroughly tested for accuracy, reliability, and efficacy;
- Continue to improve our Continuity of Operations posture and plans to ensure support of the Agency's Recovery Time and Recovery Point objectives, and
- Continue to improve our corporate decision-making process for responding to disaster.
- Ensure the safety and security of TSP and FRTIB data, assets and people

Previously Reported

- Data Center relocation going as planned
 - New 200 watts per sq ft facility in northern VA provides for long term growth
 - Receiving monthly reports on remaining data center capacity.
 - FRTIB has first right of refusal when space reaches 70% capacity.
 - Northern VA Data Centers connected and operating as single functioning data center during relocation.
- Backup Data Center has been upgraded with additional power and cooling capacity
- Mainframe and supported applications moved to new data center.

Progress Since Last Reported

- Primary circuits for new network have been provisioned and are being placed into service now.
- Redundant/backup network circuits are being provisioned and scheduled to go into service during Aug. 2009.
- Remote site automated network failover design tested successfully in lab environment.
 - Remote site network hardware has been configured and shipped
- Completed detailed design of shared server environment to operate on the IBM Blade servers utilizing VMWare virtualization technology.
- Standard security configurations for the shared server environment developed and implementation is underway.

Continuing Efforts

- Continue with production implementation of primary and backup network circuits to remote sites. (thru Sept. 2009)
- Begin installing, testing and migrating all remaining TSP applications to shared server environment. (July - Sept 2009)
- Field test and implement automated network failover design for the internal network and server components. (Aug 2009)
- Design and implement backup/archive solution for shared server environment. (Sep 2009)
- Continue testing vendor solution for MF disk replacement. (thru Sept. 2009)
 - \$3M remaining in Modernization budget for this effort
- Develop and implement full size test environment

Next Steps

- **Emphasis on Software Applications environment**
 - Upgrade record keeping system to Omni 5.7.5
 - Continue to support Web redesign
 - Configure and utilize full size test database, including automated test and evaluation tools.
 - Fully document business and system design requirements for all TSP system applications.
 - Establish critical software controls such as coding standards, software assurance (security), code acceptance criteria and code access criteria.
 - Analyze and plan strategic software upgrades to stay current with new and emerging technologies, leverage off-the-shelf software economies, ensure system efficiencies, and manage costs.
 - Refine estimation procedures to plan software implementation and lifecycle costs associated with changes
 - Establish performance criteria and metrics to support project planning, resource allocation, and validate contractor performance
 - Improve project reporting capabilities