

Commonwealth IT Solutions (CITS) Committee

November 19, 2008





STARS Update

VEHICLES

- **Phase II Software Updates**
 - All VSP vehicles are complete.
 - Currently completing UARC Agencies.
- **Vehicle installations of STARS radios VSP**
 - Divisions I, V, II and VII are complete for BFO cars. Division I is complete for BCI cars.



STARS Update

VEHICLES (cont.)

- **UARC Agencies-**

- Capitol Police, Virginia Port Authority, Virginia Information Technologies Agencies, and the Chesapeake Bay Bridge and Tunnel Police installations are complete. The other agencies are being scheduled by Division.

- **Covert Radios-**

- The replacement radio for the covert vehicles has been tested and approved. A purchase order has been delivered to Motorola to purchase the encryption option. A partial shipment has been received and BCI/UARC Radio Installations are being scheduled for covert vehicles.



STARS Update

DIVISION I

- **Towers Pending:**
 - EDGEHILL: The construction is complete. The final commercial electrical service connection is expected to be completed within 30 days.



STARS Update

DIVISION II

- The Communications Center is operating in Conventional Mode on new Motorola Consoles.
 - Towers Pending:
 - MASSANUTTEN - The Tower and Equipment Shelter are finished. The Legacy Equipment was recently removed from the site to include the tower, shelter and fuel tanks.
 - We are considering co-location on Rockingham County sites to improve coverage; they are Little North Mountain, Feedstone and Bergton.



STARS Update

DIVISION III

- The Communications Center must be renovated, removing the existing Dispatch Consoles and installing seven STARS Consoles. This work will begin within 30 days.
 - Towers Pending
 - ELLIOT KNOB - Site approval has been requested from Federal Forestry to build. This will be a microwave-only site.
 - HIGHTOP MOUNTAIN - A Nelson County Site. Final approval from the Nature Conservatory is expected, but lease negotiations among five parties is slow.



STARS Update

DIVISION IV

- The Communications Center must be renovated, removing the existing Dispatch Consoles and installing five STARS Consoles. This work will begin around mid-year of 2009.
 - Towers Pending:
 - DIVISION IV HQ TOWER - In Design Phase.
 - WALKER MOUNTAIN - This site has been removed from the design and replaced by Elkins Branch.
 - DISMAL MOUNTAIN - The site is ready to begin the final design drawings.
 - BEAMER KNOB - This site is on private land. A new lease for a larger site is being negotiated with prospective site sketches already in progress.
 - WHITE TOP - This site will be built by a private cellular company.
 - EAST RIVER MOUNTAIN - This site is on private land - A lease is pending.



STARS Update

DIVISION IV (sites)

- Towers Pending

- BIG A MOUNTAIN - This site is on VDOT Property. The design is underway.
- HIGH KNOB - This site will be built by a private cellular company.
- HUNTER MOUNTAIN - This site is on private property. A new lease for a larger site is being negotiated.
- DEAD PINE - This is an existing site. The final permitting approval from the FCC is pending.
- SAND MOUNTAIN - This is a new site within the Town of Wytheville. A lease is pending.
- BRUMLEY MOUNTAIN - This site will be built by a private cellular company.
- KEEN MOUNTAIN - This site is on the Department of Corrections property. A location has been selected for this site and a site sketch is in progress.
- BUCK MOUNTAIN - This site is in design.
- ELKINS BRANCH - This is a site that VSP is adding to the design in replacement for Walker Mountain.



STARS Update

DIVISION V

All Seven Sites for Division V are Completed.



STARS Update

DIVISION VI

- The Communications Center is complete and an occupancy permit has been issued. The Dispatchers will be scheduled for training.
 - Towers Pending:
 - POOR MOUNTAIN - This is an existing site that will be reused for STARS.
 - FORT LEWIS MOUNTAIN - This is an existing site that will be reused for STARS.
 - BULL MOUNTAIN - A site visit is scheduled to determine if Patrick County is receptive to the site.
 - MARTINSVILLE AREA OFFICE - This site will be a spur.
 - WHITE OAK - This site is on private property. A lease has been executed. The site is ready to build.
 - NORTH MOUNTAIN - This site is in preparations with drilling reports underway.
 - DUNCAN KNOB – Site clearing and excavation construction in progress.
 - SOUNDING KNOB – Road improvement construction in progress.
 - GREENS KNOB - This is an existing site that will be reused for STARS. Construction is complete.
 - APPLE ORCHARD MOUNTAIN - This is a Federal Forestry site. Final approval to build is pending.
 - SMITH MOUNTAIN LAKE - This is currently a DGIF site. STARS is negotiating a lease transfer.
 - PETERS MOUNTAIN - This is a new site. The design is in progress.



STARS Update

DIVISION VII

- The Dispatchers will be relocated to the Fairfax County PSTOC. The Dispatch Consoles have been installed. The overall construction is 90% complete.
 - Towers Pending
 - CAMP 30 - This site is in the permitting process.
 - COLUMBIA PIKE - This site is in the permitting process.
 - DIVISION VII HEADQUARTERS – Construction underway – tower foundation drilling in progress.
 - MOUNT WEATHER – Existing tower will be upgraded, starting in late November.



STARS Update

FUTURE TIMELINE

<u>DIVISION</u>	<u>ORIGINAL CONTRACT DATE</u>	<u>CURRENT SCHEDULE</u>
I	June 2006	March 2007
V	May 2008	July 2008
II	July 2008	April 2009
VI	April 2009	January 2010
III	May 2009	December 2009
IV	September 2009	February 2010
VII	October 2008	September 2009



FUNDING

- **Virginia Public Building Authority Revenue Bonds –**
The General Assembly authorized \$159,300,000 in 2004 and \$201,900,000 in 2006 totaling \$361,200,000 in Bond Funds to complete the STARS Project.

Through August 31, 2008, \$234,190,332 of Bond Funds have been spent.

- **General Funds –**
An annual General Fund Appropriation of \$2,510,000 is used to fund the STARS staff, consultant services (CTA Communications), FCC Attorney Fees, supplies, and equipment.



EXPENDITURES

- **BOND FUNDS-**

- Cumulative through August 2008
- September 2008
- Total**

Projected

Actual

233,841,531.37	234,190,332.40
4,958.00	4,429.08
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233,846,489.37	234,194,761.48

- **GENERAL FUNDS-**

- As of FY 02 - FY 08

16,342,485.00	15,873,670.00
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STARS Update

Problem Issues

Robotics

The problem was identified early in the project. The Department has been providing Motorola with all information to assist in identifying the cause.

Changes were made to the network by the place on timing clock on each microwave ring.

Changes were made to the control antenna on the towers. In addition, the microwave antennas were re-aligned to provided optimum performance.



STARS Update

Problem Issues

Robotics – (Cont.)

Changes were made to the in-car video capture system due to RF interference.

We are working with Dodge to change the Charger spark plugs and ignition coils.



STARS Update

Problem Issues

- **Robotics** - The field engineering team received a new release of subscriber radio code. There were positive results, namely a reduction by approximately 50% in the total occurrence of robotic instances, as well as a reduction in the duration of each occurrence (*from the entire conversation being "robotic" and unintelligible to just the first syllable or two.*) Another release of optimized code was sent to the field team for testing. The team experienced further improvement and reduction of occurrence of robotic issues.



STARS Update

Problem Issues

- **Mobile Data - MCT**

- The Phase I ML900 Mobile Computer Terminals (MCT) are being taken out-of-service. The Phase II ML900s are currently operating at a satisfactory level, but we have identified a few hardware concerns, that Motorola is addressing.
- A replacement for the Phase I MCTs is being evaluated. The proposed replacement is a ML910; a new computer product by Motorola. The Department has identified a few issues of concern for the ML 910.



STARS Update

Problem Issues

- **Mobile Data - SOFTWARE**

- The issues with Mobile Data Delivery and PMDC Software problems were identified early in the project.
- The Department has requested authority to conduct a 60-day test of another software solution.



MOVING FORWARD

- Motorola assigned a replacement Program Director, Mr. Wes Jones. He assumed his position in early October.
- Mr. Randy Peeler was assigned to the STARS Team as Program Manager, reporting to Captain Bolton.
- Together, Wes Jones and Randy Peeler will jointly prepare an implementation strategy to move the project to completion.
- Mr. Randy Peeler will be responsible for Project Coordination between STARS and Motorola, Budget Management, VITA Project Reporting Requirements and the Internal Resource Plan.