



South Carolina (SC)

PSIC Federal Award: \$13,499,308

(Awarded September 30, 2007)

Summary

PSIC Investment Justification	Federal Funds
Strategic Technology Reserve (STR)	\$1,045,502
South Carolina Department of Public Safety (DPS)	\$107,520
Statewide Interoperability	\$700,000
Statewide Radio Interoperability	\$3,500,007
Western Piedmont Interoperability Initiative	\$2,000,000
Georgetown County Simulcast Upgrade	\$1,100,000
Greenville County Simulcast Upgrade	\$3,500,000
Jasper County Tower	\$608,000
Charleston Consolidated 911 Dispatch	\$500,000
Management and Administration (M&A)	\$404,979
Statewide Planning	\$33,300
Total PSIC Award	\$13,499,308

Pass-through: The State of South Carolina fulfilled the PSIC Grant program’s requirement by using a combination of Memoranda of Understanding (MOUs) and passing through of funds. The State passed slightly under the minimum 80 percent of the funds to local or tribal government bodies or authorized nongovernmental public safety agencies. The State also entered into MOUs with Georgetown County and Greenville County, and these agreements authorize South Carolina to expend PSIC grant funding for \$4,600,000 on behalf of these jurisdictions.

Strategic Technology Reserve (STR): South Carolina allocated \$1,045,502 to its STR Investment.

Investments

Strategic Technology Reserve (STR)

Federal Amount:	\$ 1,045,502
Non-Federal Match Amount:	\$ 261,375
Total Project Cost:	\$ 1,306,877



100%* Acquisition & Deployment	0% Training & Exercise	0% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

This Investment addresses several of the State's key concerns (e.g., disrupted landline and wireless network services, high call volumes, power failure, and site damage) by providing for the acquisition of a trailer-mounted satellite system, which will provide voice and data connectivity via landline telephone, cell phone, fax, and email. The trailer will have an emergency generator, satellite antenna, 25 Voice over Internet Protocol (VoIP) telephones, and a wired and wireless connection for up to 25 portable computers. The satellite service downlink will be connected to the State data network and will provide data connectivity to the State Intranet and to the Internet. In addition, the Investment will also provide for the acquisition of a central cache of VHF, UHF, and 800 MHz radios. This Investment satisfies the program requirement to develop and implement a STR that is pre-positioned, deployable, and able to re-establish communications when critical communications equipment is damaged or destroyed.

South Carolina Department of Public Safety (DPS)

Federal Amount:	\$ 107,520
Non-Federal Match Amount:	\$ 26,880
Total Project Cost:	\$ 134,400



100%* Acquisition & Deployment	0% Training & Exercise	0% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

South Carolina has been upgrading the systems of Charleston, York, and Anderson Counties to Project 25 (P25) standards. Although the counties will be increasing efficiency and operability, they will lose the means of interoperable communications with the Department of Public Safety (DPS), which currently operates on a vendor-specific non-P25 compliant system. This Investment will provide for the upgrade of DPS' existing digital-capable radios to make them fully compatible with the new systems implemented in those counties. These upgrades will provide DPS with P25-compliant radios and enable DPS officers to continue to communicate as neighboring jurisdictions migrate to the new system. Without this upgrade, agency-to-agency communications would be lost during the migration.

Statewide Interoperability

Federal Amount:	\$ 700,000
Non-Federal Match Amount:	\$ 0
Total Project Cost:	\$ 700,000



0%* Acquisition & Deployment	0% Training & Exercise	100% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

South Carolina does not have a complete and accurate database of all public safety radio systems, frequencies, and equipment within the State. Through this Investment, South Carolina will utilize the Communication Assets Survey and Mapping (CASM) tool to acquire radio system information, train local government personnel on the gathering and input of the required information, and review the data for accuracy and completeness. Additionally, the State will hire two full-time communications planners to manage statewide interoperability planning, develop standard operating procedures (SOP), and manage the STR equipment. This Investment will allow the State to better assess communications capabilities and needs.

Statewide Radio Interoperability

Federal Amount:	\$ 3,500,007
Non-Federal Match Amount:	\$ 875,001
Total Project Cost:	\$ 4,375,008



100%* Acquisition & Deployment	0% Training & Exercise	0% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Many counties throughout South Carolina have not yet fully migrated to the statewide Palmetto 800 MHz system and currently operate on a number of disparate systems. In order to promote interoperability within these counties (e.g., Greenville, Spartanburg, Jasper, and Clarendon) and with neighboring counties, the State will procure 700/800 MHz digital P25-compliant radios. This equipment will allow for interoperable capabilities with the statewide Palmetto system and with other privately-owned 800 MHz systems across the State. It is anticipated that increased interoperability between disciplines and jurisdictions will be seamless due to radios being on the same platform.

Western Piedmont Interoperability Initiative



Federal Amount:	\$ 2,000,000
Non-Federal Match Amount:	\$ 497,500
Total Project Cost:	\$ 2,497,500

99%* Acquisition & Deployment	0% Training & Exercise	<1% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Currently, Anderson County, and the entire Western Piedmont region, has limited coverage and significant interoperability issues due to the geographical terrain and disparate radio systems. Through this Investment, Anderson County will enhance communications within the county and surrounding areas by purchasing additional radios and infrastructure to include subscriber equipment and/or upgrades, additional P25 site equipment and a P25 sub-cell for the Pelzer/Powdersville area, and upgrades for SC Highway Patrol troopers' radios that operate in Anderson County and surrounding area. Additional purchases for infrastructure include P25 site equipment and a radio tower. This Investment improves spectrum efficiency by providing equipment that supports utilizing both the 800 MHz spectrum, as well as the 700 MHz spectrum.

Georgetown County Simulcast Upgrade



Federal Amount:	\$ 1,100,000
Non-Federal Match Amount:	\$ 0
Total Project Cost:	\$ 1,100,000

100%* Acquisition & Deployment	0% Training & Exercise	0% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

The coastal counties in South Carolina are prone to hurricanes and currently lack radio coverage, which directly affects interoperable communications. This Investment will provide a new simulcast sub-cell site (i.e., radio tower capable of channel sharing) in Georgetown and Horry Counties that will become part of the statewide Palmetto 800 Network. The new Palmetto 800 trunked site will be installed on the Horry/Georgetown County line. The enhanced radio coverage will improve communications between all the public safety responders and agencies that serve the area and enhance interoperability across South Carolina.

Greenville County Simulcast Upgrade

Federal Amount:	\$ 3,500,000
Non-Federal Match Amount:	\$ 875,000
Total Project Cost:	\$ 4,375,000



100%* Acquisition & Deployment	0% Training & Exercise	0% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Many of the agencies serving the Greenville area already have 800 MHz radios but do not use them on a daily basis due to coverage problems in the area. Solving the coverage and interoperability gaps in the Greenville County area will directly enhance interoperability by encouraging users to turn their radios on and allow agencies to use the Palmetto 800 Network on a daily basis. South Carolina will install two new simulcast sites that will be part of the statewide Palmetto 800 Network and therefore provide interoperability enhancements in the area for all 800 MHz users in South Carolina. This Investment also includes two new Palmetto 800 trunked sites. One site will be installed in the center of the County, and the other in the western end of the County along the North Carolina/South Carolina State line. The enhanced radio coverage will improve communications between all the public safety responders and agencies that serve the Greenville County area.

Jasper County Tower

Federal Amount:	\$ 608,000
Non-Federal Match Amount:	\$ 142,000
Total Project Cost:	\$ 750,000



95%* Acquisition & Deployment	0% Training & Exercise	5% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Jasper County currently has only one communications tower to operate on the statewide Palmetto system, limiting coverage and capacity in the area. Additionally, the current tower has limited transmission capabilities and does not meet the needs of the county's first responders. Through this Investment, Jasper County will build a new radio tower in the center of the county to increase radio and mobile data coverage for 90 percent of Jasper County. The new tower will provide equipment shelter space for multiple agencies and make mutual aid channels available for use with Beaufort and Hampton Counties and other Federal and State agencies.

Charleston Consolidated 911 Dispatch

Federal Amount:	\$ 500,000
Non-Federal Match Amount:	\$ -
Total Project Cost:	\$ 500,000



0%* Acquisition & Deployment	0% Training & Exercise	100% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Currently Charleston County has six separate public safety answering points (PSAP) and a limited means of sharing data. This Investment calls for the development of a plan for a countywide consolidated 9-1-1 center and an interoperable data sharing platform, which will be a next generation emergency services network to interconnect with local, State and Federal agencies. The review of available network options and resources within the Charleston County area will be used to build a broadband network design that will allow flexibility, high performance, interoperability and redundancy. The consolidated dispatch center will alleviate problems that arose from six separate centers and will streamline dispatch communications in a cost-effective manner.

PSIC Administration and Statewide Planning Costs

Management and Administration (M&A)

Federal Amount:	\$ 404,979
Non-Federal Match Amount:	\$ 101,245
Total Project Cost:	\$ 506,224

The State was allowed to retain up to three percent of the total PSIC award for costs associated with the administration of the State's PSIC Investments. The M&A costs could include hiring full-time or part-time staff or contractors for grant management services related to reporting, monitoring and audit compliance, and associated travel and meeting expenses.

Statewide Planning

Federal Amount	\$ 33,300
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The State was allowed to retain up to five percent of the total PSIC award for Statewide Planning costs associated with the incorporation of the PSIC criteria into the Statewide Communication Interoperability Plan (SCIP). The Statewide Planning period of performance was April 1, 2007– December 3, 2007, with the submission of the SCIP.