



Nevada (NV)

PSIC Federal Award: \$12,042,417

(Awarded September 30, 2007)

Summary

PSIC Investment Justification	Federal Funds
Strategic Technology Reserve (STR) - Mobile Interoperability and Satellite Communications Vehicles and Emergency Operations Center (EOC) Radio Cache	\$932,668
Core Nevada Radio Systems Internet Protocol (IP)-Based Connectivity	\$5,114,182
Statewide Interoperability Training and Exercise Program	\$1,142,000
Nevada Department of Public Safety/Las Vegas Metropolitan Police Radio-to-Radio Interoperability	\$2,398,560
Statewide Hospital/Rural Interoperable Communications Engineering Plan to Improve Public Safety	\$1,000,000
Multi County Ethernet Microwave Interconnect	\$1,196,000
Management and Administration (M&A)	\$259,007
Statewide Planning	-
Total PSIC Award	\$12,042,417

Pass Through: The State of Nevada fulfilled the PSIC Grant Program requirement by passing through a minimum of 80 percent of the total award amount to local or tribal government bodies or authorized nongovernmental agencies.

Strategic Technology Reserve (STR): Nevada allocated \$932,668 to its STR Investment.

Investments

Strategic Technology Reserve (STR) - Mobile Interoperability and Satellite Communications Vehicles and Emergency Operations Center (EOC) Radio Cache



Federal Amount:	\$ 932,668
Non-Federal Match Amount:	\$ 231,172
Total Project Cost:	\$ 1,163,840

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

Communications interoperability is difficult in Nevada because of the numerous jurisdictions and vast geographic areas covered by responder agencies. This Investment will provide for the acquisition of three communications vehicles equipped with modern satellite data/voice communication technology, mobile radio gateways/repeaters, and 100 portable radios for the 700/800 MHz frequency band. The communications vehicles will be strategically located throughout the State, with a response time of 4 hours or less to any point in Nevada, and will give responders the ability to achieve shared channel/shared system communications interoperability. This Investment satisfies the program requirement to develop and implement a STR that is pre-positioned, deployable, and able to reestablish communications when critical communications equipment is damaged or destroyed.

Core Nevada Radio Systems Internet Protocol (IP)-Based Connectivity



Federal Amount:	\$ 5,114,182
Non-Federal Match Amount:	\$ 1,236,046
Total Project Cost:	\$ 6,350,228

97%* Acquisition & Deployment	1% Training & Exercise	2% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Nevada currently has four proprietary radio communications systems and lacks interoperable communication capabilities among the systems. This Investment will provide for the purchase and installation of four IP-based radio networking switches along with the necessary fiber optics and microwave IP network to connect the existing core Nevada radio systems with Clark County. These radio network switches will utilize Voice over Internet Protocol (VoIP) to provide for non-proprietary voice and data communications interoperability among the disparate proprietary core radio systems without increasing radio spectrum requirements. This Investment benefits public safety agencies across the State, including the Las Vegas Urban Area Security Initiative (UASI).

Statewide Interoperability Training and Exercise Program



Federal Amount:	\$ 1,142,000
Non-Federal Match Amount:	\$ 0
Total Project Cost:	\$ 1,142,000

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

Nevada's public safety community requires additional specialized training on current and future interoperable communications equipment and procedures. The Investment will implement an integrated program of training, drills, and exercises that will provide the identified user/operator base with a consistent, common level of standardized knowledge and ability. The desired outcome is the ability for first responders to apply knowledge of interoperable communications equipment and procedures in direct support of the broad mission of public safety. Additionally, this Investment will help develop a long-term training and exercise maintenance plan to address future training and exercise needs on new equipment. The training and exercise program will be offered Statewide and will be Homeland Security Exercise and Evaluation Program (HSEEP)-compliant.

Nevada Department of Public Safety/Las Vegas Metropolitan Police Radio-to-Radio Interoperability



Federal Amount:	\$ 2,398,560
Non-Federal Match Amount:	\$ 599,640
Total Project Cost:	\$ 2,998,200

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

The Las Vegas Metropolitan Police Department (LVMPD) is in the process of installing a new multi-band/multi-mode 700 MHz, IP-based, Project 25 (P25) capable radio system to enhance interoperability within the State of Nevada. The current Nevada Department of Public Safety (NDPS) radio system is an EDACS system in the 800 MHz band. LVMPD can not currently communicate directly from their radios to the State system or any State agencies on that system. The purpose of this Investment will acquire 1,515 radios, which will provide first-responder, multi-system radio interoperability and overcome the current communication gap between the 700 MHz and 800 MHz systems. The radios acquired through the Investment will be capable of communicating directly with three of the Nevada's four core communications systems.

Statewide Hospital/Rural Interoperable Communications Engineering Plan to Improve Public Safety



Federal Amount:	\$ 1,000,000
Non-Federal Match Amount:	\$ 140,000
Total Project Cost:	\$ 1,140,000

62%* Acquisition & Deployment	18% Training & Exercise	20% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Nevada hospitals communicate with other disciplines on three radio bands — (VHF) 150 MHz, (UHF) 400 MHz, and 800 MHz. Most Nevada hospitals have some radio communication, but there are no standard capabilities or plans for communicating with other emergency services during a crisis. Additionally, almost 30 percent of Nevada hospitals do not have backup communications systems if commercial connections fail, which limits the ability of other emergency services to coordinate with hospitals during emergencies that routinely overload commercial communications. This Investment will be used (1) to develop a needs assessment of hospitals' capabilities and requirements for interoperable radio links to other public safety entities and (2) to acquire the needed network equipment and connectivity to link existing VHF systems into a P25-trunked network for shared use by local, State, tribal, and Federal responders. This plan will include developing engineering plans, conducting engineering studies, and creating project plans. Lastly, this Investment will create training for stakeholders and end users. This Investment will be managed by the Clark County Office of Emergency Management and Homeland Security, but it will benefit public safety agencies across the State.

Multi County Ethernet Microwave Interconnect



Federal Amount:	\$ 1,196,000
Non-Federal Match Amount:	\$ 244,450
Total Project Cost:	\$ 1,440,450

85%* Acquisition & Deployment	1% Training & Exercise	14% Planning & Coordination
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**Percentages include both Federal and non-Federal Match funds.*

Interoperable communications connectivity among Carson City, Story County, Lyon County, Douglas County, the Walker River Paiute Tribe, and the Washoe Tribal Police is limited. To address this communications gap, this Investment proposes to build an IP Ethernet Microwave backbone to connect 20 repeater sites and one building within each jurisdiction. This project will provide interconnectivity among a total of 21 law enforcement, fire/emergency medical services, tribal public safety, and emergency management agencies in the specified region. The microwave backbone will be able to support any network operating on VHF, UHF, 700 MHz, 800 MHz, VoIP, RoIP, IP data, and broadband and narrowband systems, greatly enhancing connectivity between the aforementioned jurisdictions.

PSIC Administration and Statewide Planning Costs

Management and Administration (M&A)

Federal Amount:	\$ 259,007
Non-Federal Match Amount:	\$ 64,752
Total Project Cost:	\$ 323,759

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	\$ 0
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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. Nevada chose not to allocate its PSIC funds in this manner.
