



*Wyoming's Statewide Public-Safety  
Interoperable Radio  
Communications Systems*

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## Project Status Report

Date: January 12, 2006  
From: Tom Mahon, WyoLink Project Manager

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WyoLink is Wyoming's statewide public safety interoperable radio communications system.

This report provides current information on the WyoLink public safety radio project and answers questions of common interest.

### TOPICS IN THIS REPORT:

- A. Conventional Repeater Changes
  - B. Pilot Phase Status
  - C. Pilot Phase Completion Schedule
  - D. Funding Request
  - E. Equipment Purchase Options
  - F. Radio Programming / System Management
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### **A. Conventional Repeater Changes**

Pay special attention to this information, it may effect you.



On **Tuesday morning, January 31, 2006** the conventional repeater channels on Sherman Hill will change. New input frequencies (*talk*) will be activated on SALECS, Highway Patrol, and WyDOT Maintenance, and Mutual Aid at Sherman Hill will be changed from simplex to a repeater.

Radios users will need to switch to the new channels programmed in their radios to talk through a Sherman Hill repeater. If a user radio is on the wrong channel, the user will hear transmissions from Sherman Hill but will not be able to respond.

The output frequencies (*listen*) will not change. Thus, someone listening to Sherman Hill repeaters will experience no change.

Sherman Hill will be the first of many such changes. All existing SALECS, Mutual Aid, Highway Patrol, and Highway Maintenance repeaters will be changed in the coming two years. These changes will happen as WyoLink equipment is activated at each existing radio site. Ample notice will be provided prior each change.

## **B. Pilot Phase Status**

The WyoLink master site has been temporarily shut down to allow work on the electrical and HVAC upgrades to proceed. Some of this work involves concrete cutting and other activities that should not take place while sensitive electronic equipment is active.

The contractor is working to install the new electrical service and HVAC equipment. All equipment is on site and work is progressing.

## **C. Pilot Phase Completion Schedule**

- December 15, 2005 = WyoLink Master Site was shut down to allow construction work in the Telecom Main Equipment Room.
- January 27, 2006 (no later than) = Agencies should complete programming of all effected radios in preparation for the Sherman Hill conventional repeater input frequency change.
- January 30, 2006 = WyoLink Master Site reactivated for completion of Pilot Phase.
- January 31, 2006 (Tuesday morning) = Sherman Hill conventional repeaters switch to a new input frequency and a new base station. Thereafter, conduct acceptance inspection and address any punchlist items.
- February 13, 2006 (or sooner) = Begin Functional Acceptance Test Plan (FTP).
- March 15, 2006 = (Tentative) Celebration / Walk-thru for Officials to mark acceptance of the Pilot Phase.
- Thereafter: Temporary shut down of Master Site to allow cut-over of new electrical power and HVAC System. This shut down may last from a week or more
- Thereafter: Reactivate the Master Site and commence exercises to assess operational planning.

## **D. Funding Request**

Attached is the "Blue Page," a one page summary of the funding request. This request will complete the planned WyoLink development and provide assistance to dispatch centers in migrating to WyoLink.

## **E. Equipment Purchase Option**

As a reminder, two contracts have been established to aid local responders in purchasing WyoLink compatible radio equipment.

First, an "All Agency Pricing Structure For Radio Equipment (#AA06WYOLINK ) has been established that provides competitive pricing for WyoLink subscriber radio equipment. This price agreement provides radio equipment from multiple manufacturers at prices that equal to or better than what an individual agency could obtain through a separate procurement process. This agreement is available at: <http://wyolink.state.wy.us/equipment.asp>

Second, the "Agreement between State of Wyoming and Motorola, Inc" (#C-8055) is the result of a competitive procurement process conducted by the Department of Transportation. This contract provides pricing for all WyoLink infrastructure equipment, such as base stations and control systems; associated equipment, such as radio consoles; and subscriber radio equipment. In this contract, "Eligible Purchaser" means WyDOT and any other governmental,

educational, and research agencies and/or political subdivisions of, within or beyond the State of Wyoming.” By these terms, any Wyoming public safety responder may purchase equipment from this agreement.

An amendment to the WyoLink Contract is being negotiated that will establish pricing for Motorola support services. This will provide favorable pricing for support services covering all equipment that may be purchased through the WyoLink contract.

These agreements were established to simplify the procurement process and insure WyoLink users would receive the competitive pricing.

#### **F. System Support & Radio Programming**

The WyoLink system infrastructure will be supported by the Wyoming Department of Transportation, Telecommunications program. Within that program, the WyoLink Support Manager will oversee all system management and support operations. Two WyoLink Network Specialists will maintain the Master site, configure trunked radio templates, and program the system management data. Only the WyoLink Network Specialists will have access to the trunked-system programming key. The WyDOT Telecom field radio technicians will maintain the WyoLink radio sites located throughout the state.

Individual agencies will either be self-supporting or will continue established working relationships with local radio shops. These radio shops will install WyoLink compatible radios, program conventional modes, and load the trunking templates. Radio shops will work directly with the WyoLink Network Specialists when trunking templates need to be created or modified.

Individual radio shops will work directly with equipment manufacturers to establish and maintain their certification to sell and support the makes and models of equipment offered. Technician training on subscriber equipment will be managed between the radio shop and the manufacture.

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Thank you for your continued interest in and support of WyoLink, Wyoming's Statewide Public Safety Interoperable Radio Communications System.

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Extensive project information is available at: <http://WyoLink.wy.gov>



# Wyoming's Statewide Public-Safety Interoperable Radio Communications System

## PROJECT GOALS

Wyoming citizens and visitors will be safer when public-safety first-responders are able to communicate more effectively on a daily basis and during critical events. WyoLink is a statewide digital radio system offering improved statewide mobile radio coverage and advanced features. A shared radio system offers communication interoperability for state, local and federal responders. Completion has been accelerated due to greater interest than originally planned and the recognized importance of communications to public-safety preparedness and response, as evidenced by recent events.

### PARTICIPATION

Intent to participate is above expectations, as measured by the value of equipment purchases.

County	Value
Albany	\$1,072,031
Big Horn	\$458,616
Campbell	\$699,126
Carbon	\$928,044
Converse	\$765,231
Crook	\$210,271
Fremont	\$998,406
Goshen	\$756,619
Hot Springs	\$159,510
Johnson	\$16,153
Laramie	\$1,007,306
Lincoln	\$511,566
Natrona	\$350,166
Niobrara	\$346,253
Park	\$578,742
Platte	\$181,039
Sheridan	\$775,357
Sublette	\$492,748
Sweetwater	\$436,386
Teton	\$264,237
Uinta	\$308,994
Washakie	\$441,917
Weston	\$218,631
State Agency	\$2,011,863
Others	\$11,101
<b>TOTAL</b>	<b>\$14,000,313</b>

### PROJECT BUDGET

The original estimate of \$51M for a 7-year build out, allotted \$31M for first responder's equipment and \$20M for infrastructure. Actual infrastructure cost will be \$28M for a 3-year build out, with the contract being higher and unanticipated costs. \$15M has been funded. Participation assistance to local dispatch centers of \$21M is requested: to provide greater system capacity; assist local first responder move to WyoLink; and further the goal of interoperability.

### FUNDING REQUEST: 2007 - 2008 BIENNIUM

**Special Projects — Infrastructure Completion:** Unforeseen issues added to the completion cost. Expansion of the equipment room was required along with added spectrum engineering. The need to purchase radio frequencies from current license holders is a project risk that cannot be quantified. A special contingency is requested to cover the possibility, which will not be used unless specifically required. An ongoing contract with Motorola will provide system monitoring and technical support as the first phase of ongoing support.

**Local Development Support:** These items support connection of public-safety dispatch centers to WyoLink, in response to evident user demand for these features. Addressing these costs from the General Fund eliminates apportioning costs between participants wanting WyoLink features. Providing these funds supports public-safety preparedness by eliminating barriers to WyoLink participation.

**Infrastructure Additions.** Expanding the control system and the interconnecting microwave will increase WyoLink capacity and reliability. This supports connection of all public safety dispatch centers and additional sites to improve portable radio coverage for specific needs.

**Direct Assistance.** Public-safety dispatch centers will be aided in two ways. Data connections between dispatch centers and WyoLink will be established and maintained. A grant, up to \$150,000 per dispatch center will assist with radio console equipment upgrades to achieve WyoLink compatibility.

**Salary & Benefits:** A Support Manager and two Network Specialists will maintain network control data and provide the necessary maintenance and customer support services.

### WyoLink Funding Request \$35,474,340

Infrastructure Completion	\$11,458,491
Support Contract	\$152,849
Spectrum Purchases (if needed)	\$2,500,000
<b>Special Projects</b>	<b>\$14,111,340</b>

Infrastructure Additions	\$10,950,000
Dispatch Upgrade Assistance	\$10,050,000
<b>Local Development Support</b>	<b>\$21,000,000</b>
Support Staff — 3 FTE	\$363,000
<b>Salaries &amp; Benefits</b>	<b>\$363,000</b>

**ACTION** — An appropriation of \$35,474,340 is needed to complete WyoLink infrastructure, assist local participation, and initiate system operations and maintenance. The Governor has recommended this General Fund allocation.