



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

**Wyoming Department of Transportation
5300 Bishop Blvd, Cheyenne, Wyoming 82009 USA**

MEMO

Date: February 11, 2005, revised
From: Tom Mahon, WyoLink Project Manager
Subject: WyoLink Status Report

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

TOPICS IN THIS REPORT:

- 1) Web Page & Mailing List Upgraded
 - 2) March Demo Canceled
 - 3) Design Work Progresses
 - 4) Development Planned for 2005
 - 5) Sybille Canyon Coverage Verified
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- 1) The WyoLink web page is being redeveloped and is now available for viewing at <http://wyolink.state.wy.us>. The new web site is modeled after the WyoLink brochure. Most of the documents from the PSMC Plan / WyoLink web page are available under the "Background" link. The new site includes maps for mobile and portable radio coverage.

Associated with this web page is a new List-Serv (under "Get More Information") that will take the place of the manually maintained e-mail list. Previously, a Yahoo Group was set up as an interim measure, but it did not receive the anticipated participation. The Yahoo Group will be shut down. This status report is the first attempt to use that list. I have imported 444 addresses and names from the manual e-mail list and from the Yahoo Group. This feature will allow individuals to manage their own address on the list.

To subscribe, send a blank email to — wyolink-join@ewyoming.gov
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- 2) Previously a demonstration of WyoLink technology was planned for the first week of March. The intent of this demonstration was to familiarize Wyoming Legislators with the WyoLink project. Recognizing that the Legislature will be adjourning on the third of March, and that the Legislators have a very full schedule, and will be anxious to wrap up their business, the decision has been made to forgo the demonstration. Extensive demonstrations of the

WyoLink technology will be conducted following completion of the Pilot Phase, which is slated for the end of July. Those demonstrations will include: multi-site roaming, mobile data, automatic vehicle location, encryption, and other features.

- 3) The WyoLink system design is progressing well. The design work for the pilot phase is more extensive than that for subsequent phases because the pilot phase involves the installation of the Master Site and five of the mountaintop sites. Subsequent phases will involve the installation of additional mountaintop radio sites.

The WyoLink pilot phase will demonstrate the features of the WyoLink system. As five of mountaintop sites will be developed, the wide area roaming will be demonstrable. Additionally, a low-level site is being developed at the Emerson Building to demonstrate enhanced portable radio coverage in the area of the Wyoming State Capitol. The pilot phase will demonstrate Automatic Vehicle Location technology, voice message encryption, and mobile data terminals, and other technological features.

Prior to the beginning of installation work, the WyoLink Pilot Phase equipment will be staged as a complete, integrated system at the Motorola factory. This factory staging will allow acceptance testing of the WyoLink system prior to shipment. Complete acceptance testing will be repeated upon installation. Following installation, system coverage testing will be conducted.

- 4) WyoLink system development is constrained by three factors: (1) The pace of microwave and radio site development; (2) project funds availability; (3) the pace of radio equipment delivery and installation, as impacted by weather-related access to the radio sites. Based on those three factors, by the end of 2005 the WyoLink development should include 16 mountaintop sites. These sites will provide coverage for Albany, Laramie, Platte, and Goshen Counties, the southern half of Niobrara, Converse, and Natrona Counties, and significant portions of Carbon Counties, primarily along and north of Interstate 80.
- 5) The Sybille Canyon has been identified as a problem area for radio coverage. State Highway 34 traverses Sybille Canyon as a significant portion of its route from Wheatland to north of Laramie. Recently, while working on microwave system development, members of the WyoLink project team had occasion to perform a rough test of radio coverage in Sybille Canyon from the new radio site at Strouss Hill. It was determined that adequate coverage of the Canyon will be provided from Strouss Hill, and where coverage from Strouss Hill is lost coverage from Virgin Hill in Platte County is gained. Based on this initial evaluation, a WyoLink radio user transiting Sybille Canyon will see no loss of radio service as the WyoLink system will automatic switch radio sites.

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

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