



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

Project Summary Report

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January 2007

SUMMARY

The WyoLink project is moving forward by wrestling with the challenges inherent in such a large and complex communications project. Where delays have arisen solutions have been selected and implemented. Core implementation remains scheduled for completion at the end of 2007. Frequency planning is on track and the risk is subsiding. As presently formulated, the project budget is sufficient to complete the proscribed scope of work.

SYSTEM VERSION UPGRADE

WyoLink Project leadership and stakeholders accepted Motorola's proposal to upgrade from Astro-25 version 6.5 to version 7.2 as part of the implementation process.

It is advantageous to upgrade at this stage of the project. Only the Pilot Phase equipment needs to be upgraded. Upgrading later would increase the cost, as more equipment would have to be changed. All subsequent equipment will ship with the latest version. By acting now, the upgrade cost requires no change to the project budget.

This upgrade offers advantages to WyoLink. Advantages include: extended lifecycle, increased reliability, improved network security, reduced long-term maintenance costs, and support for future implementation of additional features. Upgrading to version 7.2 offers WyoLink users greater flexibility while holding the line on current cost and offering a lower long-term cost.

INFRASTRUCTURE DEVELOPMENT

Please refer to the attached system map. Project development is divided into 4 geographic phases. Individual sites identified with a '5' have been added to the project to improve system coverage. These sites are in the acquisition process and will be developed following core implementation.

Phase-1, the Pilot Phase, has been fully developed, including the Cheyenne Master Site, and is presently operating. The system is being used on a trail basis by several agencies. Migration of City of Cheyenne and Laramie County units is pending resolution of portable coverage.

Phase-2 radio equipment has been designed, ordered, staged, and received in Wyoming. Radio equipment installation is complete at 7 sites. Work at the remaining 11 sites is pending site construction upgrades.

Phase-3 radio equipment has been designed, ordered, staged, and received in Wyoming. Installation is pending completion of upgrades to radio buildings and radio towers.

Activating Phase-2 and Phase-3 sites awaits: (1) Completion of upgrades to radio buildings and radio towers; (2) Receipt of FCC licenses and installation of effected RF combining equipment;

(3) Completion of the system version upgrade (*the site equipment was ordered with the upgraded version*); and (4) completion of radio equipment installation and optimization. The above work is schedule for the 2007 construction season.

Phase-4 site design will be initiated shortly, with installation and activation to follow site construction during the 2007 construction season.

SITE CONSTRUCTION

Site construction has been delayed by two factors. First, the default and bankruptcy of a contractor resulted in the loss of the 2005 construction season. Second, difficulty recruiting and retaining qualified technical staff has impacted WyDOT Telecommunication's progress on radio site and microwave system construction.

Site construction work is progressing. Phase-2 site readiness was delayed when the need for additional upgrades was revealed. That work, and the completion of Phase-3 sites, is slated to be complete in time for WyoLink installation to be completed during the 2007 construction season.

To remedy the aforementioned construction delay and mitigate risk, the project management accepted a change-order whereby Motorola will provide construction for sixteen Phase-4 sites. The cost was weighed against alternatives. The Public Safety Communications Commission was consulted regarding the balance of priorities. The project budget was sufficient to address the change-order without seeking additional funding. With those considerations, the assigning the Phase-4 site construction to Motorola was judged a prudent step. The work is schedule for completion during the 2007 construction season.

FREQUENCY PLANNING

Frequency planning is on track. Motorola has completed engineering of the WyoLink frequency plan. Application documents are being assembled, and should be ready for submission this month. To help maintain project schedule, Motorola is working with the combiner equipment supplier to pre-build equipment so the delivery will allow work to proceed in the next construction season.

Some project risk is still associated with the frequency planning. The first risk is that the FCC would not grant certain required waivers. The second risk is that selected frequencies will be disallowed during the frequency coordination process. The risks are mitigated, as there is precedence for the requested FCC waivers and quality engineering has been used to minimize interference in the selection of frequencies. The availability of federal frequencies remains a contingency against both risks.

BUDGET

The project budget is sufficient for the scope of work. Current expenditures are **32%** of the Infrastructure budget, not including the "Local Enhancements" funds being directed by the PSCC as grants to aid local dispatch center upgrades. Acceptance of Detailed Design and Change Orders has encumbered **66%** of the Infrastructure budget. The difference between expenditures and encumbrances reflects work that is pending and progress for which milestones have not yet been invoiced.

