Wyoming's Statewide Public-Safety Interoperable Radio Communications System

Status Report

Date: September 21, 2005

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

TOPICS IN THIS REPORT:

A. System Map

B. Project Delays

C. Pilot Phase Status

D. Frequency Acquisition

E. Phase-2

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A. System Map

A system map has been provided with this report for your information. The five sites marked with squares are the Pilot Phase. The square around Sherman Hill is dotted to indicate that the site is not yet complete. The sites with an underline below the name will be developed in phase-2. Sites that do not have a name are microwave-only locations and will not be part of WyoLink. Microwave system paths are depicted on the map; paths marked with light green lines are proposed additions that are under consideration to provide alternate routing to increase system reliability. Other reliability and capacity upgrades are planned but that cannot be depicted on a map.

B. Project Delays

Three issues have contributed to Project delay. Considering the scope and complexity of the WyoLink project, having such issues arise is not unusual. Each issue is being addressed and either is resolved or is on its way too being resolved.

First, a tower contractor defaulted and filed bankruptcy. A replacement contractor has been retained and is now working. Chuck Kakalecik did a great job of managing this challenge.

Second, the scope of work and complexity of the frequency acquisition process was found to be greater than anticipated in the PSMC Plan. A revised frequency acquisition process has been defined and the required change order will be completed shortly.

Third, expansion of the Site equipment room has delayed activation of the master site. The expansion construction has been completed. The necessary HVAC, electrical, and fire suppression upgrades are being addressed, though some contracting complexities still need to be overcome.

C. Pilot Phase Status

Four of the five Pilot Phase radio sites are on the air. That Sherman Hill required the installation of a new building, the tower contractor problem, and the frequency acquisition issues previously mentioned all combined to delay activation of that radio site. Those three issues have been resolved and work should be completed by the end of October. The Master Site equipment installation is presently underway.

The Master Site electrical power is the source of potential delay for the Pilot Phase. To save $68,000 the UPS and HVAC equipment were sized to support WyoLink and the new WHP dispatch console. Late in the upgrade design process it was discovered that the electrical power to the building was insufficient to support the upgrade. A new power transformer for the building has been ordered as a separate WyDOT funded project. In the meantime, the UPS will be commissioned with reduced amperage to expedite the Pilot Phase.

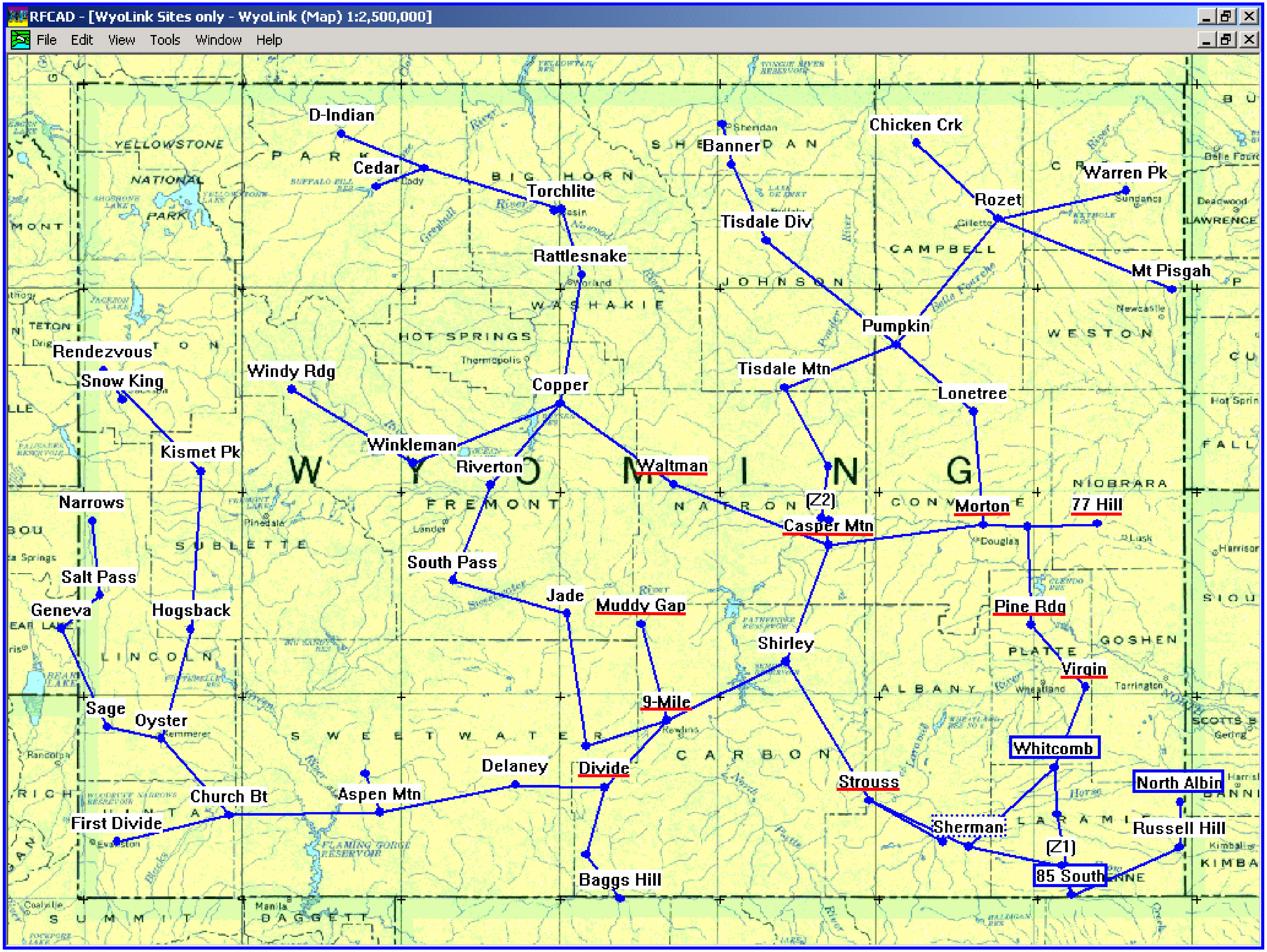
D. Frequency Acquisition

It became apparent that the frequency acquisition process represented a risk to the project and a critical-path issue for the project schedule. A significant effort was invested in reworking the frequency acquisition process. A change-order for frequency engineering services is being negotiated and should be completed this week.

E. Phase-2

Phase-2 will add 10 radio sites to WyoLink. The sites are identified on the accompanying map. The sites were selected based on scheduled completion of microwave and radio site upgrade work. You may note that Shirley Mountain did not make it into phase-2, and would represent a gap in coverage. Shirley Mountain requires a new building an electrical power upgrade, which will not be completed until next year when weather again allows access.

The phase-2 development plan calls for the installation of non-frequency specific equipment, such as antennas, as soon as possible. Frequency-critical equipment will be ordered and installed following completion of the frequency engineering work. The latter tasks will take place inside equipment building and, with some exceptions, could proceed even during freezing weather. This approach is intended to maximize the present good weather and mitigate delay associated with reworking the frequency acquisition process.


RFCAD - [WyoLink Sites only - WyoLink (Map) 1:2,500,000]
File Edit View Tools Window Help
D-Indian
Cedar
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Rattlesnake
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Tisdale Div
Chicken Crk
Rozet
Warren Pk
Mt Pisgah
Pumpkin
Tisdale Mtn
Lonetree
Copper
Windy Rdg
Rendezvous
Snow King
Kismet Pk
Winkleman
Riverton
Waltman
(Z2)
Casper Mtn
Morton
77 Hill
Narrows
Salt Pass
Geneva
Hogsback
South Pass
Jade
Muddy Gap
Pine Rdg
Shirley
Virgin
Sage
Oyster
9-Mile
Whitcomb
Delaney
Divide
Strouss
North Albin
Church Bt
Aspen Mtn
First Divide
Sherman
Russell Hill
(Z1)
85 South
Baggs Hill
YELLOWSTONE NATIONAL PARK
PARK
BIG HORN
SHERIDAN
CAMPBELL
JOHNSON
WASHAKIE
HOT SPRINGS
WESTON
TETON
WYOMING
FREMONT
NATRONA
CONVERSE
NIOBRARA
SUBLETTE
LINCOLN
GOSHEN
PLATTE
ALBANY
SWEETWATER
CARBON
LARAMIE
UINTA
SUMMIT
DAGGETT