



Status Meeting Minutes

WyoLink Contact Number: 307-777-WLNK (9565)

Date: April 27, 2015

Time: 10:00 A.M. To 10:38 A.M.

Location: WYDOT, 5300 Bishop Blvd, Cheyenne, Planning Building, Geology Conference Room, first floor (south end)
Conference Phone: 877-278-2734 PIN: 085726

Attendees

Bill Walter, PSCC	Paul Newman, Motorola Solutions by phone
Bob Symons, PCSS	Rick Clark, USFS
Daniel Zackey, Bureau of Indian Affairs by phone	Steve Langworthy, Motorola Solutions by phone
Dave Riegert, Motorola Solutions by phone	Troy Berg, WyoLink
Jose Crespo, Motorola Solutions by phone	Troy McLees, Wyoming Highway Patrol
Neil Clatworthy, Motorola Solutions by phone	Wes Chisnall, Wireless Advanced Communications
Paul Card, WY Dept of Health by phone	

1. Core Site Status

a. **Black Mountain (BTNF):** April 27, 2015:

Status: WYDOT Telecommunications is still working on moving existing frequencies to this site. Once the frequencies are licensed, Teton Communications will order the combiner. Given frequency licensing and possible weather delays, this site may not be active until late spring of 2015.

Actions: Larry Sheridan checked status this morning of the application for Black Mountain frequencies with the FCC and stated status is "2-Pending" indicating that it was not rejected.

b. **Monument Ridge (BTNF):** April 27, 2015:

Status: Marty met with Big Piney District Ranger Rob Hoelscher in Pinedale in June of 2014 to discuss Monument Ridge. Marty anticipates it is unlikely construction will be approved at Monument Ridge before 2017 due to the amount of time it will take for the Forest Service to evaluate our proposal. At this time, funds are not available to construct a site at Monument Ridge.

Actions: The analysis of coverage maps for Kismet Peak and Monument Ridge indicate that Kismet Peak would not provide necessary coverage along Highway 189/191 in north western Sublette County, nor along Cliff Creek Rd in the back country in this portion of Sublette County. Of the 6 sites considered for coverage in the Bondurant area, Monument Ridge is the only technically feasible site providing needed coverage. The proposal has been updated to reflect this and re-submitted to Rob Hoelscher, who

will discuss it further with Marty mid May. Rick Clark has met with the BTNF and discussed this proposal with them and stated that permission has been granted, along with a suggested route, to place a test radio on Monument Ridge for testing of coverage. Awaiting conditions for access to location.

c. **Salt Pass (BTNF):** April 27, 2015:

Status: **This site is operational.** The reclamation of the old site is expected to be complete in 2015. Marty has obtained the requirements for the reclamation of the old Salt Pass site from the Bridger Teton National Forest. Marty will verify the seed mix needed for this site with the BTNF. Depending on the viability of the seed, Marty may have some that can be used.

Actions: WYDOT Purchasing has put the reclamation out for sealed bid, with an opening date of April 7th. The bids we received ranged from \$26K to \$115K, and the vendors had many questions. As a result, all bids were rejected. Marty is consulting Forest Service for better parameters and will reopen for bidding. Pictures and recommendations are being sent to Marty.

d. **Signal Mountain (GTNP):** April 27, 2015:

Status: Marty is working on rates for leasing connectivity from Signal Mountain to the WyoLink system. There is adequate funding to construct Signal Mountain in the FY 2015 budget at this time. Given winter site access issues, it is possible this site will not be active until late spring of 2015. The lease with Union Wireless has been fully executed.

Actions: The permit from the National Park Service has been shipped to Marty fully executed. The road is scheduled for reopening on May 6. Marty is working with Union Cellular, Motorola and National Park Service to schedule access to road and tower. Every effort will be made to have this site activated in May. Mr. Clatworthy has been in touch with Brian Smith of Union Cellular for Notice to Proceed.

2. **Portable Coverage Enhancement Site Status**

a. **Pinedale:** April 27, 2015:

Status: All equipment for this site including the combiner is on hand. The tower has been constructed and Sublette County has essentially completed construction of their building. The equipment has been installed in the building. Clark Wireless is working on cable trays, ice bridge and grounding. Given weather related site access issues, this site may not be active until late spring of 2015.

Actions: Rick Clark indicates that Ranger Moore is pleased with the dual use building designed and constructed by Sublette County. Generator is to be delivered May 20 to WyDOT yard. Rick Clark states that there are no wildlife constraints at this site and progress should commence once site is accessible.

3. **Local Site Status:**

a. **Glenrock:** April 27, 2015:

Status: Converse County has signed their contract with Motorola for this site, but they have not finalized the location for this site yet – it may be at the Fire Hall or at Tall Grass. Until a final decision is made on this site, 800 MHz and microwave licensing

is on hold. Marty will work with Chuck on an MOU for Converse County's presence at Morton Hill when they install that end of their PtP microwave link. Frequency licensing is in progress. As soon as the license is granted, Jose Crespo (Motorola) will let WyoLink know. Converse County is still working with the owning agency to inspect the site and tower at Tall Grass. They are working with engineers to develop a plan to strengthen this tower to support the additional load. The current tenant will be moving out of the site prior to installation. Steve Langworthy is submitting the application for licenses.

Actions: Russ Dalgarn, Converse County Emergency Management, reports (on March 24th) that the microwave path surveys have been completed and the license applications have been submitted. The 800 MHz license applications have been submitted. The first draft of the purchase agreement has been sent to the current site owner. It has been decided to move on the Tall Grass site. Voice and microwave licenses have been applied for.

b. **Archer Interchange:** April 27, 2015:

Status: January 23rd was the kick off meeting. Spectrum will need to be located, and the Spectrum Workgroup will assist. This will be a 7 channel site, and the Fox Farm 800 MHz site will be expanded to 7 channels as part of this project. Ed Boyer, Wayne Nosal and Bob Symons submitted for frequencies. All frequencies met Motorola's requirements.

Actions: Motorola and Laramie County are working on microwave costs and engineering the link. Work may begin on installation of the equipment in the next few weeks. The concurrence letter has been sent to Colorado for their signature. Mr Clatworthy reports frequencies have been approved and going through licensing now with FCC for Cheyenne Water and Fox Farm. Concurrence letter has been received by Mr. Symons and forwarded to LCCCC.

4. **Low Speed Data:** March 30, 2015:

Status: The Cheyenne Radio Shop reports that the WYDOT Maintenance application that will aid in quick reporting of road conditions is operational in District 1. WYDOT Maintenance and the Cheyenne Radio Shop report that low speed data over WyoLink is working very well for this application. WHP has decided to utilize mobile WiFi in their vehicles to provide data connectivity. Marty will coordinate with the Cheyenne WYDOT Radio Shop for a stress test of data usage by WYDOT Maintenance tablets.

Actions: Marty has confirmed that detailed reports for low speed data use are available.

5. **Console Connectivity:** April 29, 2015:

Status: Mike Kurz and Marty are working on converting the leased T1 circuits to Sheridan to Metro Ethernet. Fremont County is exploring options to replace the leased circuits to their consoles with a lower cost alternative. Bob Symons indicates he would like to set up a CSSI testing session with several console vendors

Actions: The T1 circuits from Sheridan PD to Sheridan WYDOT are in place. Marty and Mike are coordinating the cut over of Sheridan PD to Metro Ethernet from Sheridan to the Casper POE. Bob working with Chairman Harshman to send a letter to the 13 entities with Gold Elite consoles explaining they will need to be replaced before WyoLink upgrades to version 7.16. The installation of the CSSI depends on when money will be available. Testing to prove that third party consoles will work with WyoLink over CSSI is planned. More details will be

provided as they are available. Cut-over for Sheridan PD console site planned for April 29th.
UPDATE – April 29th: Cut-over completed successfully.

6. **Adjacent State Connectivity:** April 27, 2015:

Status: Idaho, Montana, Nebraska, South Dakota and Utah are all in varying stages of system update and compatibility and are contemplating connectivity with Wyoming among other states. If WyoLink obtains CSSI, it will give us the ability to connect with adjacent states via ISSI. Colorado and Nebraska are the most immediate possibilities, and will depend on T1 connectivity with these states.

Actions: WyoLink's CSSI budget request has been approved. Once we determine how and when the funds will be available, Marty will begin the necessary work to have this installed. Marty will be discussing this with Jose from Motorola. Planning has begun for the 75th Sturgis gathering, and about a million participants are expected, about 300 thousand more than the 50th. There may be some additional programming for Wyoming and South Dakota radios as a result of this. Mr. Symons working with South Dakota for cross-state programming agreement.

7. **Risk Management:** These are WyoLink issues posing significant risk to the system and a description of the risk.

a. **Hoback Area Communications: Medium Risk.** April 27, 2015.

Status: Marty has submitted an updated proposal for Monument Ridge to the Forest Service. Funding to construct Monument Ridge will be sought through the FY2016 WYDOT budget process. Funding to construct a site at Black Mountain is in the FY2014 budget at this time.

Actions: The analysis of coverage maps for Kismet Peak and Monument Ridge indicate that Kismet Peak would not provide necessary coverage along Highway 189/191 in north western Sublette County, nor along Cliff Creek Rd in the back country in this portion of Sublette County. Of the 6 sites considered for coverage in the Bondurant area, Monument Ridge is the only technically feasible site providing needed coverage. The proposal has been updated to reflect this and re-submitted to Rob Hoelscher, who will discuss it further with Marty mid April. Rick Clark has met with the BTNF and discussed this proposal with them. There will be a meeting between the PSCC, Sublette County, Teton County, WyoLink and other interested parties at some time in the near future. When details are available, they will be noted here. Rick Clark has met with the BTNF and discussed this proposal with them and stated that permission has been granted, along with a suggested route, to place a test radio on Monument Ridge for testing of coverage. Awaiting conditions for access to location.

b. **Local Activity Affecting WyoLink Performance: Low Risk.** April 27, 2015.

Status: Bob and Marty have discussions as necessary with local agencies to see what can be done to reduce the impact to WyoLink from their local operations. The WyoLink Office tracks usage on the system (including busies) to keep aware of possible issues on WyoLink both now and in the future.

Actions: There were two multi-vehicle crashes in which WyoLink performed very well. There were increased busies but the busy rate remained very low at about 0.2%. There were a few instances of dragging traffic to Casper and Cody that were monitored closely by the WyoLink office.

8. **Coverage:** April 21, 2015.

Status: Testing results have been uploaded to WYDOT's GIS program and the coverage map is now showing these results. There are areas that have not been tested as well as areas that do not have all towers providing coverage tested. WyoLink will continue to test and post results as completed.

Actions: As BER testing is scheduled, the location and dates will be noted here. UPDATE – April 29: BER testing being conducted in Uinta and Lincoln Counties week of May 4.

9. **Busies:** April 21, 2015:

Status: The WyoLink Office tracks usage on the system (including busies) to keep aware of possible issues on WyoLink both now and in the future. The Operations Workgroup will tackle the issue of setting an acceptable busy rate standard for WyoLink.

Actions: There were two multi-vehicle crashes in which WyoLink performed very well. There were increased busies but the busy rate remained very low at about 0.2%.

10. **Dragging Traffic:** April 21, 2015:

Status: The WyoLink Support Office is not aggressively tracking instances of dragging traffic unless it results in busy indications, but does research occurrences when time permits and they are noticed. WyoLink users are encouraged to move off their normal dispatch talkgroup when traveling outside their home area to avoid dragging their dispatch traffic to a remote portion of the state unnecessarily. This can cause unnecessary loading on towers removed from their local area and create busy indications both in these remote areas and in their home area.

Actions: There have been no notable occurrences of busy indications over the last month. There were two multi-vehicle crashes in which WyoLink performed very well. There were a few instances of dragging traffic to Casper and Cody that were monitored closely by the WyoLink office. There were no negative impacts but WyoLink was prepared to take action if necessary.

11. **Codeplug Schedule:** April 21, 2015:

Status: The WyoLink Office has completed 533 codeplugs to date in 2015, with an average wait time of one week.

Actions: The WyoLink Support Office completed 77 codeplugs in April. There are 6 codeplugs on the schedule to be completed and the predicted wait for codeplugs that are newly submitted is about 1 days.

12. **WyoLink Usage:** April 27, 2015:

Status: Currently there are about 16,000 radios able to use WyoLink. There are 264 agencies approved to use WyoLink with 112 State and Federal agencies and agencies in 19 Counties having moved their operations to WyoLink.

Actions: WyoLink usage through the end of April, 2015 was 7.0 million calls, with a busy rate (by time) of 0.012%. To date in 2015 WyoLink has been available over 99.99% of the time. Bob met the Forest Service counterpart to Chris Lewis. As a result of this meeting, we will be working with the Forest Service as they move toward using WyoLink on the local level.

13. **PSCC Meeting:** April 21, 2015:

Status: The next PSCC meeting will be in June. If you know of anyone who would like to receive notices for PSCC meetings, please contact Bob Symons (307-777-5065 or

bob.symons@wyo.gov) or Marty McCoy (307-777-4756 or martin.mccoy@wyo.gov) and we will add you to the distribution list for these notices.

Actions: There are no updates at this time.

14. WyoLink User Training: April 21, 2015:

Status: Bob Symons will be updating the training program. When details are available, they will be posted here. If anyone would like training, please contact Bob Symons.

Actions: There are no updates at this time. Bob will be traveling to Lincoln County in the next couple of weeks, after which they will move operations to WyoLink.

15. Other Items:

- a. Bill Walter stressed the importance of progressing as quickly as possible for the Black Mountain, Signal Mountain and White Pine completion. It would be good to have these completed by the next PSCC meeting and to have information about the coverage provided by these sites at that meeting.

16. Next Meeting: Tuesday, May 26, 2015 at 10:00 at WYDOT, 5300 Bishop Blvd, Cheyenne, Planning Building, Geology Conference Room, first floor (south end). There will be a Conference Phone available for anyone wishing to call in and participate. The number is: 877-278-2734, PIN 085726

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