



# Status Meeting Minutes

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

---

**Date:** January 27, 2014 **Time:** 10:00 A.M. To 10:51 A.M.

**Location:** Geology Conference Room, first floor of the Planning Building (south end)  
Conference Phone: 877-278-8686 PIN: 085726

**Attendees**

Paul Newman, Motorola	Dave Riegert, Wireless Advanced Communications
Bob Symons, PSCC	Jim Pobanz, Motorola by phone
Bill Walter, FBI, PSCC	Jenifer Shassetz, Sheridan PD by phone
Dan Perko WY State Forestry	Neil Clatworthy, Motorola by phone
Rob Wilson, WYDOT	Captain Troy McLees, WHP by phone
Rick Clark, WYDOT – USFS Liaison	Marty McCoy, WyoLink

---

## 1. Tip of the Month

- a. **Optimizing Mobile and Portable Radios:** January 27, 2014: According to Motorola, their mobile and portable radios need to be optimized to work properly on WyoLink. This applies to new radios as well as radios that have been in service for a while. There is a letter from Motorola at the end of the WyoLink Status Meeting Agenda stating this. This optimization is different than anything that was previously performed for conventional, analog systems and requires specialized test equipment and procedures. This optimization sets several key parameters in the radio that are only used in digital radio systems. If these are not set properly, the radio will operate erratically and will not give consistently good performance. For more details, please contact a manufacturer authorized service shop for your radios. Bob Symons will send the Tip of the Month out using the WyoLink ListServ.

## 2. Wyolink Update

- a. WyoLink will be updating our software from version 7.11 to version 7.14 beginning Monday, August 4<sup>th</sup>. As the schedule for this update is developed, both WyoLink and Motorola will be contacting agencies with Consoles to schedule any necessary work as part of this update. This update will not require any changes to mobile or portable radio programming. If you have any questions about this update, please don't hesitate to contact Marty McCoy, WyoLink Support Manager.

### 3. Core Site Status

- a. **Black Mountain (BTNF):** January 27, 2014: Marty received a sample lease and site sharing document from Michelle Motzkus with Silverstar Communications for Black Mountain. Marty is working with Chuck and Michelle on arriving at an agreement for sharing Silverstar's site at Black Mountain. There is adequate funding to construct Black Mountain in the FY 2014 budget at this time.
- b. **Hoback Area (BTNF):** January 27, 2014: This section has been renamed to Hoback Area to more accurately reflect the location of the sites that will be used to provide coverage in this area. Due to the extreme cost of constructing at site at Pow Wow (~\$5.5M) and the extreme cost of maintaining a site in a roadless area (by helicopter), the PSCC has directed Marty to look at alternative sites. One of these is Black Mountain and the other may be Monument Ridge. Marty sent a brief description of what we would like to have at Monument Ridge to Rob Hoelscher, the District Ranger for Big Piney, Michael Schrotz and Rick Clark. This will allow the Forest Service to outline what would need to be done to secure a permit for this location. Marty will ask the Forest Service to issue appropriate notices to entities who may want to share our sites when the time is appropriate so these sites can be permitted with these possible users in mind. Marty anticipates it is unlikely construction will be approved at Monument Ridge before August of 2015.
- c. **Salt Pass (BTNF):** January 27, 2014: **This site is operational. No Change.**  
The reclamation of the old site is expected to be complete in 2014. Marty and Michael Schrotz have discussed the reclamation of the old Salt Pass sites, and Michael will let Marty know what the BTNF would like to see. Rick Clark indicates there will soon be a new District Ranger: Richard Raione.
- d. **Signal Mountain (GTNP):** January 31, 2014: Marty spoke with Patti Brockman with Union Wireless and they have reached a point where they are able to move forward with our Site Sharing Application. Patti mentioned that the drawings for equipment placement at the Signal Mountain site have been completed, and she will now send a proposed lease for this site to Marty on Monday, February 3, 2014. Marty sent a completed Form 299 to Terry Roper with the Grand Teton National Park. When approved, this would grant WyoLink a right of way to this location. There is adequate funding to construct Signal Mountain in the FY2014 budget at this time.

### 4. Portable Coverage Enhancement Site Status

- a. **Green River:** January 27, 2014: **This site is operational.** Marty has sent the lease and transfer of the building and tower to the Attorney General for approval as to form. The last of the punch list items – the repainting of the propane tank – will be completed when the weather warms up.
- b. **Pinedale:** January 31, 2014: Marty and Bob are assisting Sheriff Lankford as Sublette County applies for a modification to the Special Use Permit to accommodate the new tower at this site. Marty is working with Motorola and the tower manufacturer to obtain stamped tower drawings for this site so the Forest Service can

review them and issue a permit for this location. Marty will keep Sheriff Lankford informed on any progress on this front. When the permit is issued for this location, arrangements for construction the spring of 2014 will begin.

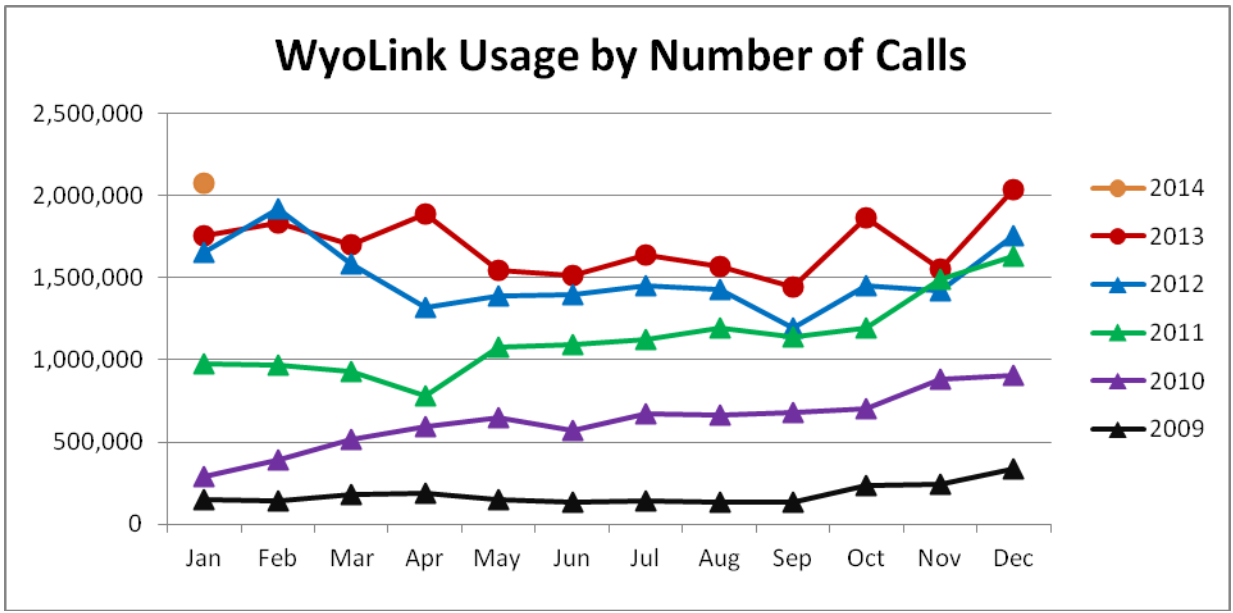
- c. **Wheatland:** January 31, 2014: **This site is operational.** The lease and transfer of the building has been sent to the Attorney General for approval as to form. The equipment for modification of the combiner to add Wheatland REA's frequencies has arrived, and it will be installed Monday, February 3<sup>rd</sup>.
5. **Low Speed Data:** January 27, 2014: WyoLink continues to work with WHP and other agencies interested in utilizing Low Speed P25 Data to address their concerns and ensure that their operations do not adversely affect WyoLink. Marty, Mark Coler, Mark Kelly and Paul Newman worked with A. J. Myers to resolve configuration issues preventing Data over WyoLink from working in WHP vehicles. There are still issues with the configuration of Net Motion, and A.J. is working with Net Motion to resolve these. WyoLink is ready and willing to participate in further tests and troubleshooting as necessary as A. J. works with Net Motion. Marty has asked A. J. for an update on any progress with NetMotion. WYDOT Maintenance is looking at an application that will aid in quick reporting of road conditions, and WyoLink will be keeping a close eye on the data requirement for this.
6. **Console Connectivity:** January 27, 2014: Marty and Mike Kurz (WYDOT Telephone section) have decided that the leased T1 circuits to the consoles in Lander and Riverton would be the next candidates for replacement with lower cost ME links. Mike Kurz has begun work on this. Prior knowledge of and approval of new consoles and voice recorders is necessary to accurately control and predict future WyoLink costs, and Marty has carried this idea to the Operations Workgroup. Bill Walter indicates the BIA may purchase a wireline console for the Wind River Police Department. Mr. Walter met with Chief Mathews and discussed this console. The Wind River PD is having issues with funding, but would still like to have a wire line console. At this time, WyoLink does not have funds available to cover any portion of a leased T1 circuit from the appropriate Zone Controller to the Wind River PD in Ft. Washakie. Marty has forwarded BER Coverage testing results to Chief Mathews in Ft. Washakie. Mr. Walter has mentioned to the BIA and the Motorola Federal representative that WyoLink will need advance notice of T1 lines and any change to WyoLink's configuration to accommodate this console. The BIA is still looking for funding for a new console and T1 connectivity. The Kemmerer console is now operational. Jay Hokanson is working on Lincoln County's talkgroup plan with Bob Symons. WyoLink should expect codeplug programming requests from Lincoln County in the near future. Fremont County is exploring options to replace the leased circuits to their consoles with another, lower cost alternative. Steve Langworthy indicated Casper is moving forward with their new dispatch center and the replacement of their Gold Elite console with an MCC-7500 console. The schedule is still under development. Early March is the current goal for the cutover to this new console. Marty will research the impact on the SUA II from moving from a CentraCom Gold Elite to an MCC-7500 console. The PSCC has received a letter from Lt. Anderson regarding the new console, and the Operations Workgroup will review this letter.
7. **Adjacent State Connectivity:** January 27, 2014: Bob reports that Idaho, Montana, Nebraska, South Dakota and Utah are all in varying stages of system update and compatibility, and that he continues to have meetings and dialog with these states as they move forward and

contemplate connectivity with WY among other states. Bryan Morehouse and Goshen County are considering an ISSI connection between Goshen County and Nebraska. Bob Symons is involved with both sides as they discuss this, and will continue to do so. Nebraska is at version 7.11 and is moving to version 7.13. CSSI compliance and conformance testing is in the works at TIA, according to Bob. Bob has also been meeting with South Dakota, who may be considering adding WyoLink talkgroups to their radios. SD is currently at version 3.X, and is migrating their radio sites to 7.x, which would allow their radios to operate on WyoLink. Colorado is currently updating their system to 7.14. This conversion is scheduled to be complete during the spring of 2014. Once this is complete, they will have ISSI V2 available. Colorado and Nebraska are talking about connecting using ISSI sometime after Colorado's upgrade is complete. Bob reports that Utah is in the process of updating their site controllers and back room equipment from 4.x to 7.x. South Dakota is doing the same thing. No repeaters have been converted in either state. Nebraska is still working through their update. Colorado may have some of their users splitting from CCNC. Idaho is moving their development towards the border, and is happy to hear we may be sharing a site at Black Mountain, as this would help Idaho-Wyoming communications. Montana is still looking for more funding to complete their 7.13 system. Bob Symons will provide an update at the meeting. Colorado will be at version 7.14 next spring. Adams County, Thornton County and Weld County have broken away from Colorado's statewide system, and they will have ISSI in their new master site.

8. **Risk Management:** These are WyoLink issues posing significant risk to the system and a description of the risk.
  - a. **Hoback Area Communications: High Risk.** January 27, 2014.  
Given the extreme high cost for constructing and maintaining a site at Pow Wow, The PSCC recommended that Marty move forward with a more detailed proposal for using Black Mountain, ID, Monument Ridge, WY and one other site to provide approximately the same coverage. Funding to construct a site at Black Mountain is in the FY2014 budget at this time. Funding to construct a second site (Monument Ridge) providing coverage in the Hoback area is lacking at this time.
  - b. **Local Activity Affecting WyoLink Performance: Medium Risk.** January 27, 2014. Bob and Marty will have discussions 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, and is observing heavy loading on two sites in south east Wyoming – 85 South and Cheyenne Water Tank. Marty has a quote from Motorola for adding two channels to the Cheyenne Water Tank site and the contract for this addition is at the Attorney General for approval as to form. Marty is working with Larry Sheridan to move frequencies to 85 South. WYDOT has secured funding for the addition of two channels to both 85 South and Cheyenne Water Tank.
9. **Coverage:** January 27, 2014: Testing results are being uploaded to WYDOT's GIS program and the coverage map is showing these results as they are uploaded. The URL for this map is: <https://apps.wyoroad.info/wyolink/coveragemap.html>  
Please be aware this map has a limited amount of testing results displayed at this time, although additional results are being uploaded. To date, about 65% of the coverage testing results have

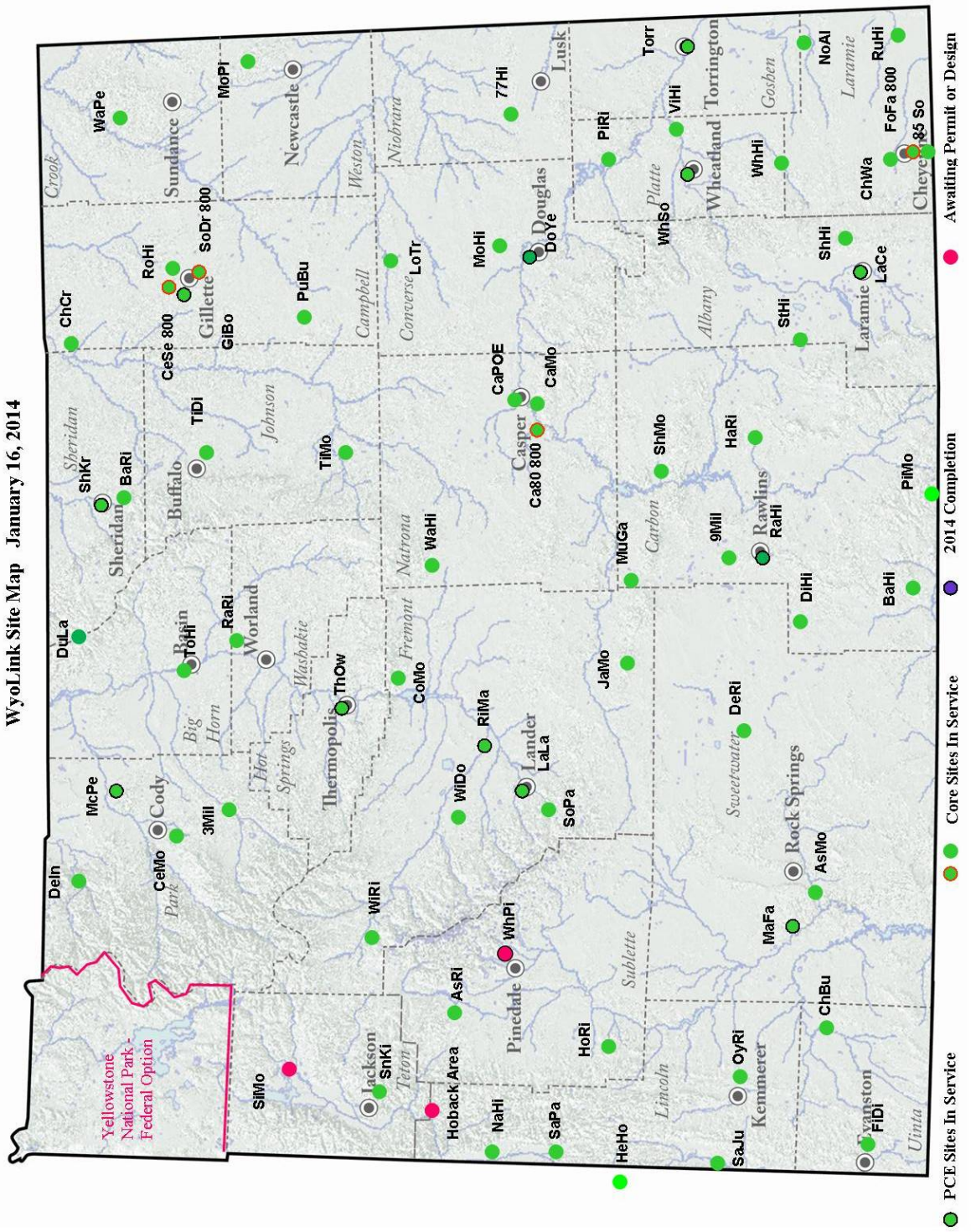
been uploaded to WYDOT's GIS program. Due to a very heavy workload, WYDOT's GIS program reports these results may not be available on the map until the end of February, 2014. This map displays coverage testing results from a mobile radio standpoint. Coverage testing was performed in Green River and Wheatland, with additional coverage testing to be performed in February.

10. **Busies on WyoLink:** January 27, 2014: There are still a high number of busy indications on 85 South and Cheyenne Water Tank. These two sites would still benefit from two additional channels each to increase capacity and Marty has a quote from Motorola for adding two channels to the Cheyenne Water Tank site. The contract for this addition is at the Attorney General for approval as to form. Marty is working with Larry Sheridan to move frequencies to 85 South. WYDOT has secured funding for the addition of two channels to both 85 South and Cheyenne Water Tank. Marty is preparing monthly cumulative busy reports for the PSCC Operations Workgroup. Bob Symons asked other attendees at the conference he attended in Glenco. There does not appear to be a widespread standard, each system administrator sets their own standards based on the desires of their users. Bob Symons asked the State of Ohio about their standard for excessive busies. Ohio has set the standard for busies on their system that anything over 0.1% is unacceptable. As busies begin approaching this number, they begin considering actions or expansions to resolve the issue.
11. **Dragging Traffic:** January 27, 2014: **No Change.** 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. There have been no notable instances of dragging traffic in the last month.
12. **Codeplug Schedule:** January 31, 2014: The WyoLink Office has completed 185 codeplugs in 2014, with an average wait time of 4 days. Currently there are 185 codeplugs with normal priority on our schedule to be completed. The predicted wait for codeplugs that are newly submitted is about 10 days. We are working diligently to process codeplugs and return them to each agency so they may insert them and begin to use their radios. If any agency has questions about their codeplugs, please call the WyoLink Support Office and we will be happy to help.
13. **WyoLink Usage:** February 3, 2014: Currently there are about 17,128 radios and consoles able to use WyoLink. There are 267 agencies approved to use WyoLink with 112 State and Federal agencies and agencies in 19 Counties having moved their operations to WyoLink. WyoLink usage to date in 2014 is 2,076,474 calls, with a busy rate (by time) of 0.011%. In 2014 WyoLink has been available over 99.999% of the time. At the end of this WyoLink Status Meeting document is a chart and data showing the top 50 talkgroups on WyoLink by air time.



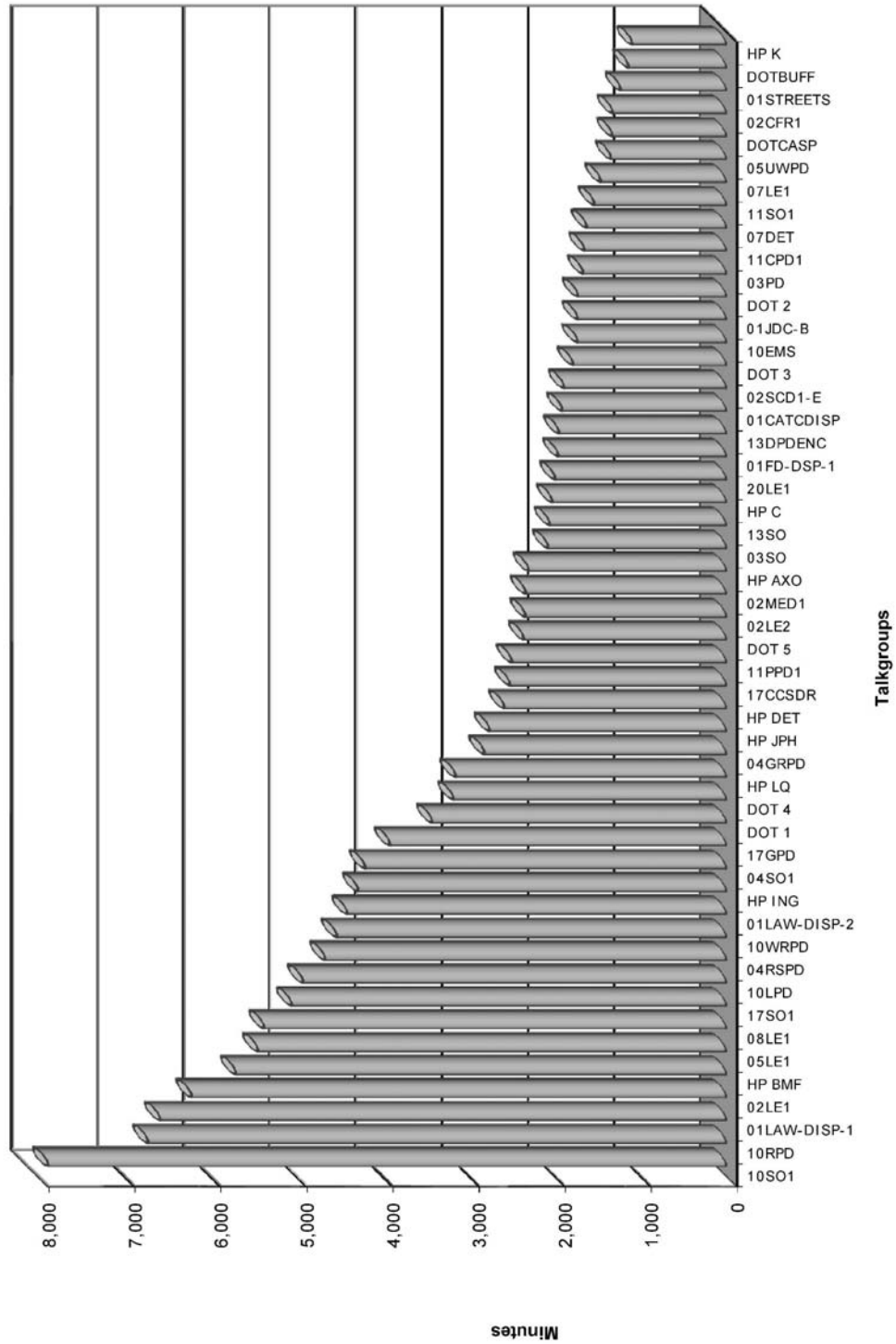
14. **PSCC Meeting:** January 27, 2014: The next PSCC meeting will be in Cody the latter part of March. When the date and location are finalized, they will be posted here. If you know of anyone who would like to receive notices for PSCC meetings, please contact Bob Symons (307-777-5065 or [bob.symons@wyo.gov](mailto:bob.symons@wyo.gov)) or Marty McCoy (307-777-4756 or [martin.mccoy@wyo.gov](mailto:martin.mccoy@wyo.gov)) and we will add you to the distribution list for these notices. There was a phone conference call between the PSCC, Governor’s Office and WYDOT. All three agencies are on the same page regarding the WyoLink budget and the need for a long range plan for WyoLink.
  
15. **WyoLink User Training:** January 20, 2014: The new training program is an agency specific program and is more user-oriented, concentrating on what is in the user’s radio. It is a “Train the Trainer” program. There are two basic handouts. One is the user’s talkgroup plan and the second is a picture of the user’s radio with descriptions regarding the function of the buttons and knobs on the radio. Bob Symons conducted classes for local agencies across Wyoming. The next training classes will be for State and Federal Agencies.
  
16. **General:** Bob Symons has requested an updated Pre-Negotiated Pricing List from all approved vendors, complete with contact information. This will be updated on the web site in the near future.
  
17. **Next Meeting:** Monday, February 24, 2014 at 10:00 in the Geology Room, Planning Building, first floor, south end.

WyoLink Site Map January 16, 2014





Total Airtime For the Top 50 Talkgroups January 2014





### Total Airtime Top 50 Talkgroups

GenesisWorld.com

System	Zone	Site
ALL	ALL	ALL

Start Date: 01/01/2014 12:00:00 AM  
 End Date: 02/01/2014 12:00:00 AM

*If shown, Hourly Time is displayed in Seconds*

TalkgroupID	Talkgroup Alias	Minutes
13720	10SO1	7,866.4
13700	10RPD	6,703.1
13168	01LAW-DISP-1	6,566.7
214	02LE1	6,199.8
19875	HP BMF	5,684.4
610	05LE1	5,429.7
1202	08LE1	5,355.9
14907	17SO1	5,034.7
13708	10LPD	4,904.3
405	04RSPD	4,646.5
13757	10WRPD	4,511.3
13169	01LAW-DISP-2	4,391.2
19871	HP ING	4,265.0
400	04SO1	4,185.4
14904	17GPD	3,895.3
6571	DOT 1	3,414.3
20083	DOT 4	3,167.7
19883	HP LQ	3,142.8
406	04GRPD	2,808.1
6378	HP JPH	2,747.0
6382	HP DET	2,575.9
14900	17CCSDR	2,509.8
13909	11PPD1	2,487.4
20096	DOT 5	2,346.7
215	02LE2	2,327.3
211	02MED1	2,323.4
6372	HP AXO	2,291.8
13307	03SO	2,066.8
14104	13SO	2,045.5
19879	HP C	2,016.8
15302	20LE1	1,984.1
13148	01FD-DSP-1	1,946.0
14115	13DPDENC	1,938.1
13115	01CATCDISP	1,901.7
245	02SCD1-E	1,881.0
6586	DOT 3	1,775.7
13732	10EMS	1,726.1
13246	01JDC-B	1,724.3
20071	DOT 2	1,721.0
13311	03PD	1,660.8
13906	11CPD1	1,644.8
1031	07DET	1,618.0
13903	11SO1	1,531.3
1000	07LE1	1,456.0
615	05UWPD	1,335.8
20074	DOTCASP	1,320.6
203	02CFR1	1,317.2
13216	01STREETS	1,223.8
20085	DOTBUFF	1,131.2
6386	HP K	1,087.3
<i>Data Provided by Genesis</i>		<b>149,835</b>

## Subscriber radios for use on Wyolink

---

July 18, 2012

To: MRs selling subscribers for use on Wyolink

From: Paul Newman, Wyolink System Manager, Motorola Solutions

### **Subscriber radios for use on Wyolink**

All subscribers sold for use on Wyolink **must** be tuned and aligned before they are deployed in the field. This includes new radios from the factory as well as any radio that has been repaired and required the code plug to be reloaded. Failure to do so may cause degraded performance and perceived coverage issues where there is none.

It is highly recommended that regular Preventive Maintenance be performed to ensure continued proper performance.

Please feel free to contact me with any questions.

**Paul Newman**

[paulnewman@motorolasolutions.com](mailto:paulnewman@motorolasolutions.com)

307-256-0344

