



Status Meeting Minutes

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

Date: December 16, 2013 **Time:** 10:00 A.M. To 10:38 A.M.

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

Attendees

Bill Walter, FBI & PSCC	Mike Nichols, Sheridan County Commissioner by phone
Bob Symons, PSCC	Neil Clatworthy, Motorola by phone
Jim Pobanz, Motorola by phone	Rick Clark USFS Liaison to WYDOT
Ken Shultz, WYDOT	Vernon Hill, PSCC by phone
Marty McCoy, WyoLink	

1. Tip of the Month

- a. **Console Re-Bootting:** December 10, 2013: Windows operating system software updates are pushed to all Windows PCs monthly by the WyoLink Support Office. User agencies are responsible for rebooting the computer for each console position after the 15th day of the month but no later than the 22nd day of the month to install the updates and ensure all patched vulnerabilities are installed. WyoLink recommends that Windows PCs at the same location be updated one PC at a time. This will keep your console computers current and will ensure that any software patches and anti-virus files are properly implemented. There are a few console locations that have not been re-booted for several months, so please check your consoles and re-boot them if they haven't been re-booted for a while. Bob will send the Tip of the Month out using the WyoLink ListServ.

2. Core Site Status

- a. **Black Mountain (BTNF):** December 31, 2013: Marty spoke with Machel Motzkus with Silverstar Communications on December 11th and Machel was to have sent Marty Silverstar's lease form and site sharing specifications by Friday, December 13th. Marty has not yet received these, and left both voice and Email messages with Machel asking her to re-send these. Once Marty has these, he will work with Machel and Chuck Kakalecik to arrive 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):** December 16, 2013: 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 will also be discussing Monument Ridge with the Forest Service. Rick Clark indicates that Rob Hoelscher is the District Ranger for Big Piney, and that Rob and Michael Schrotz will be the contacts for this site. Marty has made initial inquiries with the Bridger-Teton Forest about Monument Ridge and is preparing a rough proposal of what WyoLink would like to construct. 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.

- c. **Salt Pass (BTNF):** December 16, 2013: **This site is operational.** 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):** December 31, 2013: 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 as soon as David Hines agrees with WYDOT on the language for the site lease payment, these will be sent to Marty. Marty will work with Chuck Kakalecik and David Hines during the first week of January to finalize this. Patti put Marty in contact with Terry Roper with the Grand Teton National Park so the GTNP's Form 299 can be completed. This form will grant WyoLink a right of way to this location. Union will also start working with the GTNP to modify Union's lease to allow our presence on their tower and in their building. WYDOT Telecommunications District 3 supervisor Tony Richno has performed BER based coverage testing using a temporary transmitter at Signal Mountain in cooperation with the Grand Teton National Park. When the coverage test results are compiled, we will share them with all interested parties. Initial indications are that Signal Mountain provides good coverage of the west side of Togwotee Pass. There is adequate funding to construct Signal Mountain in the FY2014 budget at this time.

3. Portable Coverage Enhancement Site Status

- a. **Green River:** December 10, 2013: This site is complete and was declared operational December 9, 2013. Marty will work with Green River on the lease and transfer of the building and tower.

- b. **Pinedale:** December 10, 2013: **No Change.** 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. The tower and foundation design and drawings have been given to the Forest Service. We are waiting for the BTNF to issue

the modification of the Special Use Permit to Sublette County. When this happens, arrangements for construction the spring of 2014 will begin.

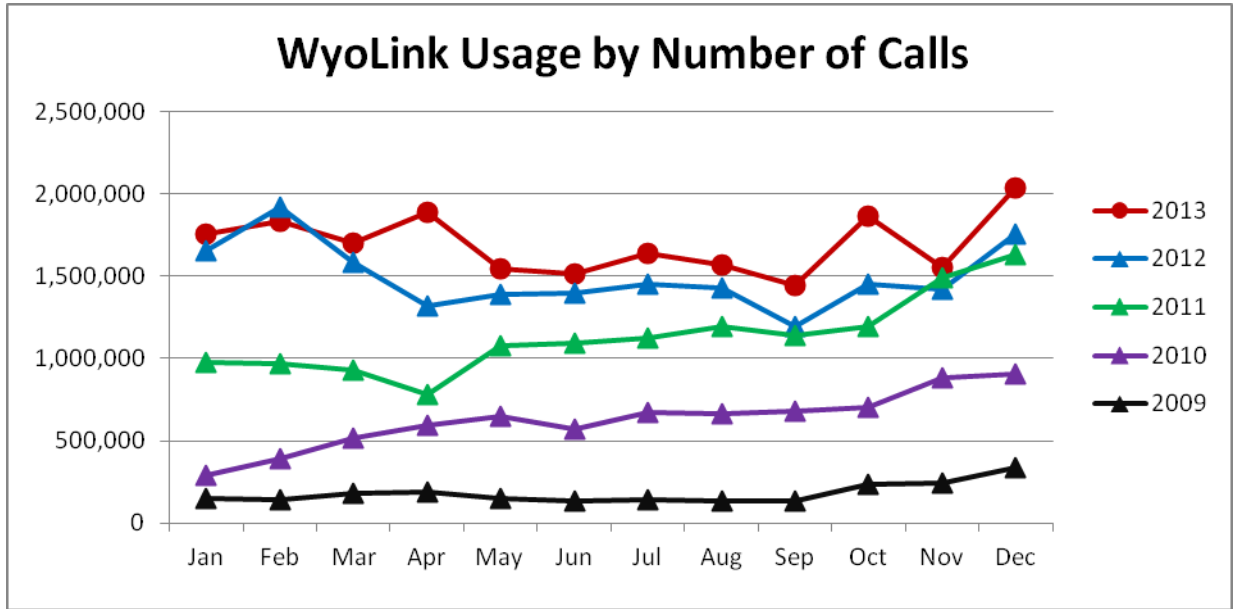
- c. **Wheatland:** December 10, 2013: This site is complete and was declared operational December 10, 2013. Marty will work with Platte County on the lease and transfer of the building.
4. **Low Speed Data:** December 16, 2013: WyoLink continues to work with WHP and other agencies interested in utilizing 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 is keeping in touch with A. J. as he works 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.
5. **Console Connectivity:** December 31, 2013: 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. Marty will be working to extrapolate future effects of new consoles and voice loggers on the SUA. Prior knowledge of and approval of new consoles and voice recorders may be necessary to accurately control and predict future WyoLink costs, and Marty will carry 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. Chief Mathews would like to see the results of the coverage testing we performed 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. Motorola indicates that the console installation for the Kemmerer Console is still on track, and the schedule has not changed. The customer still has a fair amount of work, including construction and connection of services to the new building, but the installation of this console is on track. The PtP link from the Lincoln County Justice Center to WYDOT's Oyster Ridge site has been installed and passed three days of testing with no errors. When power is available at the Justice Center, the link will be tested again with the switch and router to further verify their function. Lincoln County will bear the responsibility for operation and maintenance of this PtP link once it is installed. 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. Motorola provided this update early today – Monday regarding Lincoln County: The T1 link is up and verified. The Dispatch console is operational, and this will be verified by Motorola on site this week. The Equipment installation is nearly complete. Cutover is scheduled for mid January. Fremont County is exploring options to replace the leased circuits to their consoles with another, lower cost alternative.

6. **Adjacent State Connectivity:** December 16, 2013: 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 4.1, 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 system.
7. **Risk Management:** These are WyoLink issues posing significant risk to the system and a description of the risk.
 - a. **Hoback Area Communications: High Risk.** December 10, 2013.
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.** December 10, 2013. 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. The PSCC is working on obtaining funding for this upgrade.
8. **Coverage:** December 10, 2013: WYDOT's GIS program has completed work on the public version of the map displaying BER based coverage testing results. 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 and displayed weekly. The WyoLink Office is making a concentrated effort during November to upload the results of the coverage testing that has

been completed to this map. To date, about 55% 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 Campbell and Niobrara Counties the week of December 9th. Coverage testing will be performed in the Green River and Wheatland areas in the coming few weeks. Coverage testing using a test transmitter at Signal Mountain has been completed. The WyoLink Office is analyzing these results and will make them available when this analysis is complete. These results will not be posted on the GIS Coverage Test map, as they were not taken from an actual operational site and do not represent currently available coverage.

9. **Busies on WyoLink:** December 16, 2013: **No Change.** There are still a high number of busy indications on 85 South and Cheyenne Water Tank. The WyoLink Support Office is working to identify heavy users and perhaps make adjustments to alleviate the heavy loading on 85 South and Cheyenne Water Tank. These two sites would still benefit from two additional channels each to increase capacity, though. 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. Bill Walter indicates that Mike Slifka has forwarded a request to use two FBI frequency pairs at 85 South to his superiors and is awaiting dialog with them.
10. **Dragging Traffic:** December 16, 2013: **No Change.** The WyoLink Support Office has started researching instances when traffic is being dragged across the state, and has prepared a report form that will be used to document these occurrences. 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.
11. **Codeplug Schedule:** December 31, 2013: The WyoLink Office has completed 4130 codeplugs in 2013, with an average wait time of 17 days. Currently there are 129 codeplugs with normal priority on our schedule to be completed. The predicted wait for codeplugs that are newly submitted is about 2 weeks. 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.
12. **WyoLink Usage:** December 10, 2013: Currently there are about 17,067 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.

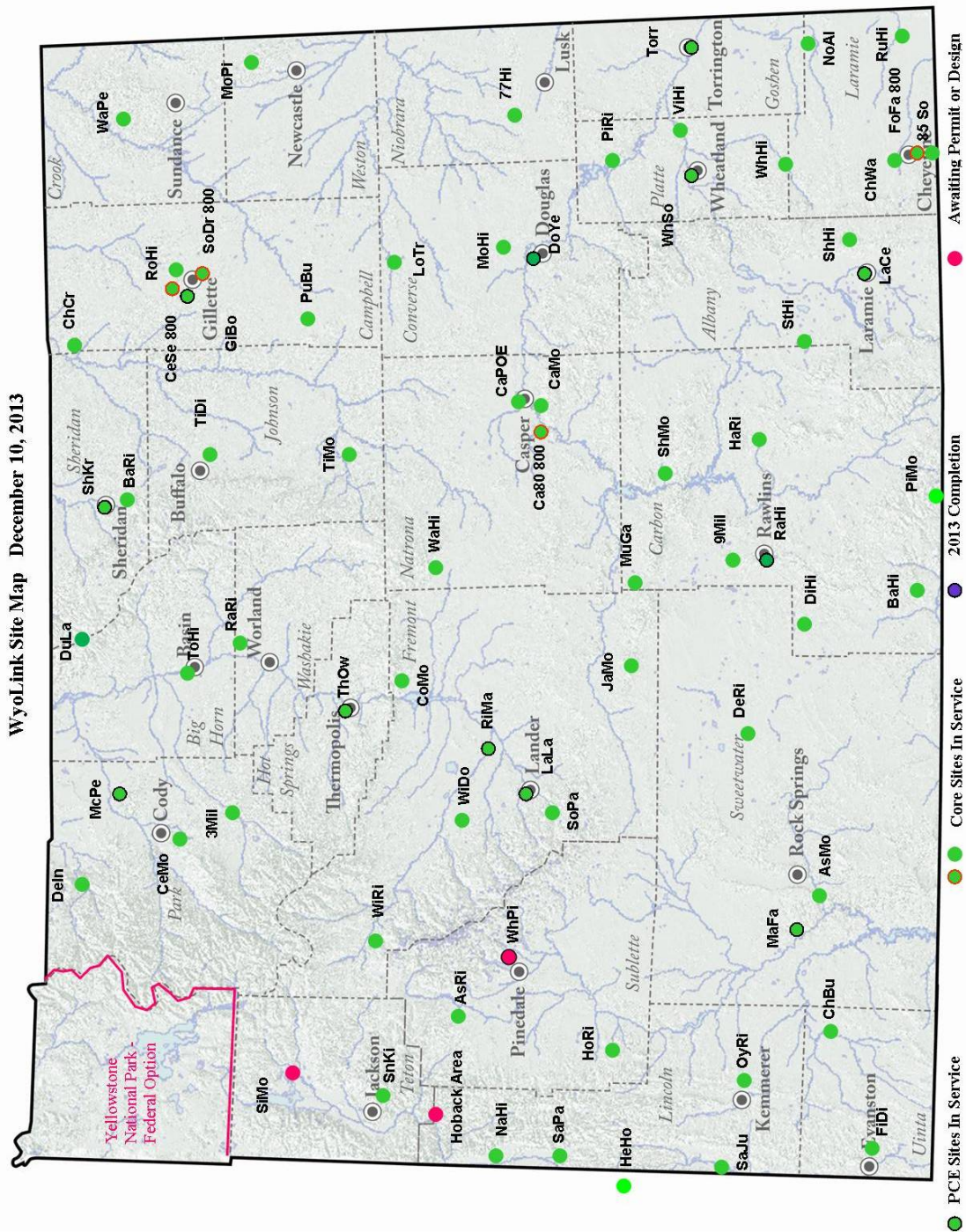
WyoLink usage in 2013 is 20,341,786 calls, with a busy rate (by time) of 0.022%. In 2013 WyoLink has been available over 99.9% of the time. The WyoLink Site Map is now part of the WyoLink Status Meeting Agenda and Minutes. At the end of this WyoLink Status Meeting document is a chart and data showing the top 50 talkgroups on WyoLink by air time. WyoLink subscribers, member agencies and other interested parties are encouraged to use the new WyoLink contact number – 777-WLNK (777-9565) -- for all their WyoLink contact needs.

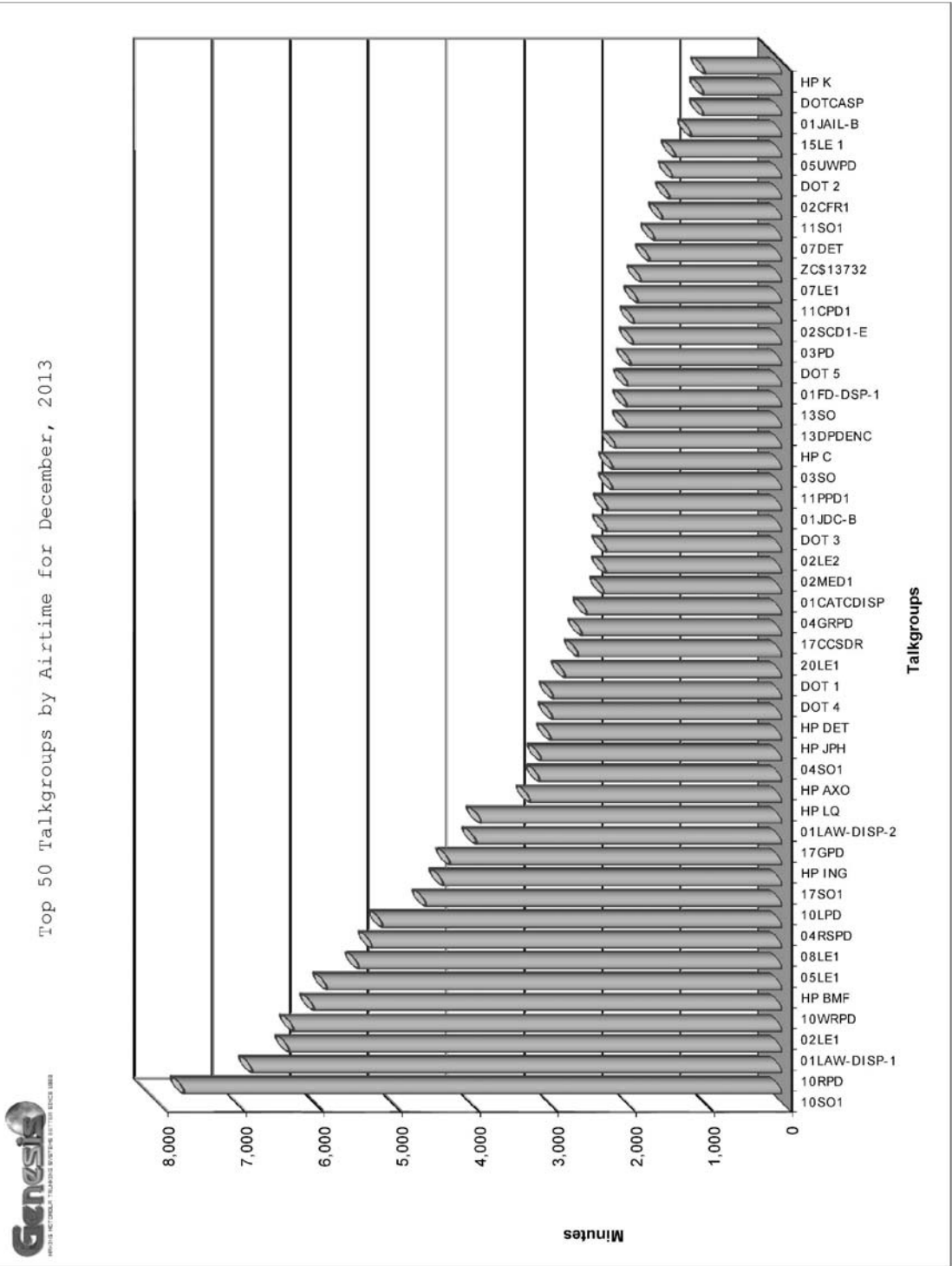


13. **PSCC Meeting:** December 10, 2013: The next PSCC meeting will be in the latter part of March. When the date and location are finalized, they will be posted here. If you know of anyone who would like to receive notices for PSCC meetings, please contact Bob Symons (307-777-5065 or bob.symons@wyo.gov) or Marty McCoy (307-777-4756 or martin.mccoy@wyo.gov) and we will add you to the distribution list for these notices.

14. **WyoLink User Training:** December 31, 2013: 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.

15. **Next Meeting:** Monday, January 27, 2014 at 10:00 in the Geology Room, Planning Building, first floor, south end.





Total Airtime Top 50 Talkgroups

System	Zone	Site
ALL	ALL	ALL

GenesisWorld.com

Start Date: 12/01/2013 12:00:00 AM

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

If shown, Hourly Time is displayed in Seconds

TalkgroupID	Talkgroup Alias	Minutes
13720	10SO1	7,653.3
13700	10RPD	6,778.6
13168	01LAW-DISP-1	6,308.6
214	02LE1	6,247.9
13757	10WRPD	5,989.8
19875	HP BMF	5,825.2
610	05LE1	5,412.7
1202	08LE1	5,244.4
405	04RSPD	5,108.4
13708	10LPD	4,550.6
14907	17SO1	4,332.1
19871	HP ING	4,244.5
14904	17GPD	3,911.5
13169	01LAW-DISP-2	3,856.8
19883	HP LQ	3,227.6
6372	HP AXO	3,104.8
400	04SO1	3,085.0
6378	HP JPH	2,960.6
6382	HP DET	2,941.3
20083	DOT 4	2,930.3
6571	DOT 1	2,777.0
15302	20LE1	2,609.2
14900	17CCSDR	2,560.1
406	04GRP	2,496.1
13115	01CATCDISP	2,279.5
211	02MED1	2,253.1
215	02LE2	2,247.7
6586	DOT 3	2,243.5
13246	01JDC-B	2,232.3
13909	11PPD1	2,166.7
13307	03SO	2,164.2
19879	HP C	2,128.6
14115	13DPDENC	1,991.0
14104	13SO	1,985.3
13148	01FD-DSP-1	1,975.4
20096	DOT 5	1,934.0
13311	03PD	1,903.2
245	02SCD1-E	1,892.4
13906	11CPD1	1,842.6
1000	07LE1	1,803.1
13732	ZCS13732	1,693.4
1031	07DET	1,627.4
13903	11SO1	1,526.7
203	02CFR1	1,438.4
20071	DOT 2	1,401.9
615	05UWPD	1,363.7
14502	15LE 1	1,155.1
13165	01JAIL-B	1,001.8
20074	DOTCASP	999.3
6386	HP K	981.4

Data Provided by Genesis **150,388**