

WyoLink Support Manager Report to the PSCC

March 16, 2011

WyoLink has 48 of the 55 identified core sites functional. Three additional WyoLink sites under construction will be completed during the spring and summer of 2011. This would bring the count of operational core WyoLink sites to 51, over 90% of the WyoLink core sites that have been identified so far. The Portable Coverage Enhancement site at Torrington is operational, bringing the total number of sites built by WyoLink to 49.

We are waiting for US Forest Service approval of Special Use Permits for two more sites. These sites are Angles Trailhead (or another site in the area) and Pow Wow. Construction has begun on two of the sites on Forest Service Land; Salt Pass (construction is stalled for the winter season), and Duncan Lake (construction is stalled for the winter season). Construction on Hell Hole should begin this spring after the snow has cleared. Pinkham Mountain only needs the FCC licenses to allow the RF Combining equipment to be ordered. Pinkham Mountain is scheduled to be completed late spring / early summer 2011. The Pow Wow Point site will not be operational until 2012, as I do not anticipate this permit will be approved in time to complete construction until late 2011. The permit for the site near Elk Mountain at Halleck Ridge is in process with the BLM, and is to be on track for construction to begin the spring of 2011.

The microwave link is in place and operating properly between the Casper Hall of Justice and the WyoLink Zone 2 controller. Currently part of Casper's 800 MHz site is functional on WyoLink to facilitate testing and operations during Casper's migration. Motorola is working toward resolving issues with some of Casper's older mobile radios to allow them to work properly on WyoLink. Motorola has identified a possible solution, and after testing will schedule Casper's cut over to WyoLink.

I am working with the PSCC, the Wyoming Office of Homeland Security and several local agencies on Portable Coverage Enhancement Sites. The Portable Coverage Site at Torrington is operational. Lander, Laramie, Riverton and Thermopolis are on track for spring construction. Bob Symons and I are working with local agencies to address issues with leases as questions arise. Bob Symons and I have visited Buffalo, Douglas, Gillette, Newcastle, Sheridan and Sundance to discuss the need and possible location for a Portable Coverage Enhancement site. Portable Coverage testing will be conducted in Wheatland later in March in preparation for choosing a location for their PCE site.

On Monday, November 29th, Rob Wilson, Bob Symons, Tim Hibbard and I met with Motorola to discuss Lifecycle Management, WyoLink support issues and the possibility that an upgrade to the system software in the Master Site (among other locations) may be needed to keep WyoLink current and able to be supported and expanded. When my evaluation of the information presented at this meeting is complete, I will bring it to the PSCC with my recommendations (in consultation with Robert Wilson and Bob Symons).

About 79 Federal, State and Local Agencies are now registered to use WyoLink, with approximately 9,300 radios on the system. WyoLink continues to work with agencies wishing to move their operations

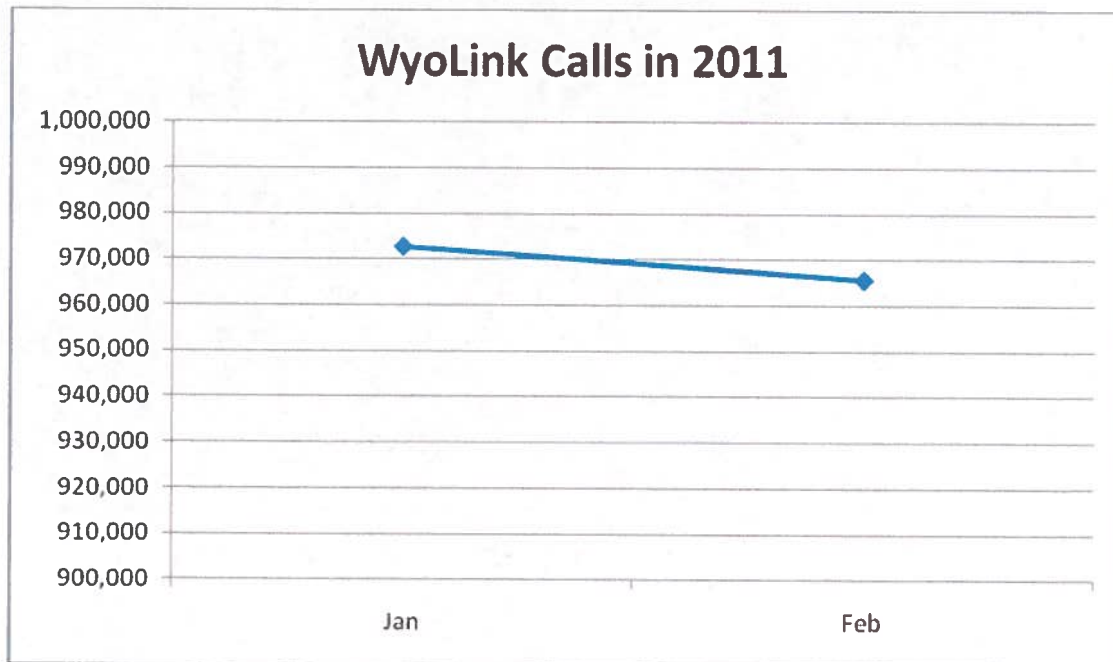
Wyolink Support Manager Report to the PSCC

March 16, 2011

to Wyolink to create codeplugs for them to insert into their radios. To date this year, some 650 codeplugs have been created, with some 470 on the schedule to complete – a reduction from 1300 codeplugs pending in December, 2010. Our codeplug schedule is proving very valuable in tracking the codeplug work ahead of us and establishing our priorities. I urge everyone who has codeplug work scheduled to contact me if there are any questions about their codeplugs or their place on the schedule.

Wyolink has a newly installed Genesis GenWatch 3 monitoring tool that allows us to easily monitor several key operational parameters, including total system usage, number of radios on the system, number, duration and cause of any busy indications, airtime per hour and user, total airtime, PTT length, site and talkgroup usage among many others. This system allows access to this information in real time and with more ease than was available from the Wyolink servers and controllers. As we become more familiar with this GenWatch 3 system, we will configure it for most efficient use, and will begin using the information it provides to optimize Wyolink to maximize its usefulness and availability. In the month it has been in operation, we have found the reason for some of the busy indications on the system and taken steps to minimize them.

To date in 2011 (January 1st through February 28th), the Wyolink system handled 1,938,361 radio calls for a total time on the air of 6,875 hours (286 days). The chart attached to this report shows Wyolink usage visually. Busy indications remain at an insignificant 0.06%.



WyoLink System Access Applications										
	Agency	WyoLink	Mutual Aid	SALECS	Date of Inter Ops	Date of PSCC	Membership Agreement AG Office	Membership Agreement Sent	Membership Agreement Signed	
1	Absolute Solutions	Yes			3/4/2008	6/10/2008	11/11/2008	11/14/2008	11/19/2008	
2	Albany County Emergency Management	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	10/19/2010	12/10/2010	
3	Albany County Public Health	Yes	Yes		9/4/2008	9/9/2008	11/4/2008	11/14/2008	1/7/2009	
4	Albany County Road & Bridge	Yes			3/4/2008	6/10/2008	11/4/2008	11/4/2008	12/16/2008	
5	Albany County Sheriff's Office	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/4/2008	12/16/2008	
6	Albin Rescue Ambulance	Yes	Yes		3/9/2009	3/10/2009	4/13/2009	4/21/2009	5/29/2009	
7	Atwood Family Ambulance	Yes	Yes		9/17/2009	9/18/2009	10/28/2009	11/3/2009	11/5/2009	
8	Baroill Police Department	Yes	Yes	Yes	3/9/2009	3/10/2009	10/15/2010	10/19/2010		
9	Basin Police Department	Yes	Yes		3/9/2009	3/10/2009	4/13/2009	4/21/2009	4/23/2009	
10	Big Horn County Coroner	Yes			9/17/2009	9/18/2009	10/28/2009	11/3/2009	1/5/2010	
11	Big Horn County Emergency Management	Yes			9/17/2009	9/18/2009	10/28/2009	11/3/2009	12/1/2009	
12	Big Horn County Fire Protection District #1	Yes			9/17/2009	9/18/2009	10/28/2009	11/3/2009	11/10/2009	
13	Big Horn County Fire Protection District #5	Yes	Yes		9/17/2009	9/18/2009	10/28/2009	11/3/2009		
14	Big Horn County Public Health	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	11/2/2009	5/19/2009	
15	Big Horn County School District #2	Yes	Yes		9/4/2008	9/9/2008	11/17/2008	11/18/2008	11/26/2008	
16	Big Horn County Sheriff	Yes			9/17/2009	9/18/2009	10/15/2010	10/19/2010	11/2/2010	
17	Bighorn Airways	Yes		Yes	9/10/2010	9/15/2010	10/22/2010	10/26/2010	10/28/2010	
18	Buffalo Police Department	Yes			3/9/2010	3/9/2010	7/23/2010	7/26/2010	11/3/2010	
19	Buffalo Volunteer Fire Department	Yes	Yes		9/10/2010	9/15/2010	10/22/2010	10/26/2010	10/31/2010	
20	Byron Police Department	Yes			9/17/2009	9/18/2009	10/28/2009	11/3/2009	11/10/2009	
21	Campbell County Emergency Management	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009	2/6/2009	
22	Campbell County Fire Department	Yes	Yes		6/6/2008	6/10/2008	11/17/2008	11/18/2008	1/15/2009	
23	Campbell County Memorial Hospital Ambulance	Yes	Yes		6/2/2010	6/8/2010	6/29/2010	7/19/2010	7/22/2010	
24	Campbell County Public Health	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009	2/6/2009	
25	Campbell County Public Works	Yes	Yes		9/4/2008	9/9/2008	11/4/2008	11/4/2008	12/7/2008	
26	Campbell County School District	Yes	Yes		6/6/2008	6/10/2008	11/4/2008	11/4/2008	11/25/2008	
27	Campbell County Sheriff's Office	Yes	Yes		6/6/2008	6/10/2008	11/4/2008	11/4/2008	12/7/2008	
28	Carbon County Public Health	Yes			3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/16/2010	
29	Carbon County Sheriff's Office	Yes	Yes	Yes	5/29/2009	6/1/2009	7/9/2009	7/14/2009	8/17/2009	
30	Casper/Natrona County Public Health	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009	5/19/2009	
31	Castle Rock Hospital District Emergency Services	Yes	Yes		3/9/2010	3/9/2010	6/29/2010	7/19/2010	7/23/2010	
32	Cheyenne Fire/Rescue	Yes	Yes		9/4/2008	9/9/2008	11/4/2008	11/4/2008	12/17/2008	
33	Cheyenne Regional Airport	Yes	Yes		6/6/2008	6/10/2008	11/17/2008	11/18/2008	11/24/2008	
34	Cheyenne Regional Medical Center	Yes			12/7/2009	12/8/2009	2/1/2010	2/4/2010	4/27/2010	
35	Cheyenne/Laramie County Health Department	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009	2/18/2009	
36	Chugwater Ambulance Service	Yes	Yes		6/2/2010	6/8/2010	11/3/2010	11/8/2010	12/15/2010	
37	Chugwater Fire Protection	Yes	Yes		3/9/2010	3/9/2010	3/25/2010	3/30/2010	4/2/2010	
38	City of Lander	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/13/2009	5/1/2009	
39	City of Laramie Public Works	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/14/2008	1/20/2009	

WyoLink System Access Applications									
	Agency	WyoLink	Mutual Aid	SALECS	Inter Ops	Date of	Date of	Membership Agreement	Membership Agreement
						PSCC	AG Office	Sent	Signed
40	City of Riverton	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/13/2009	
41	Cody Police Department	Yes	Yes	Yes	12/7/2009	12/8/2009	2/1/2010	2/4/2010	3/4/2010
42	Collins Communications Inc	Yes			12/7/2009	12/8/2009	2/1/2010	2/4/2010	2/5/2010
43	Communications Technologies	Yes	Yes		3/9/2010	3/9/2010	3/24/2010	3/30/2010	4/10/2010
44	Converse County Public Health	Yes	Yes		9/4/2008	9/9/2008	11/17/2008	11/18/2008	12/2/2008
45	Converse County Road and Bridge	Yes	Yes		9/17/2009	9/18/2009	11/19/2009	11/25/2009	12/14/2009
46	Converse County Sheriff	Yes	Yes	Yes	9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/2/2010
47	Cowley Police Department	Yes	Yes		9/17/2009	9/18/2009	11/4/2010	11/8/2010	11/15/2010
48	Crook County Public Health	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009	
49	Douglas Police Department	Yes	Yes		9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/26/2010
50	Dubois Rural Fire District	Yes	Yes		9/4/2008	9/9/2008	2/2/2009	2/4/2009	2/20/2010
51	Eastern Wyoming Ambulance Service	Yes	Yes	Yes	6/2/2010	6/8/2010	10/4/2010	10/19/2010	
52	First Wireless Inc - formerly CSI Radio	Yes	Yes	Yes	12/7/2009	12/8/2009	2/1/2010	2/4/2010	2/22/2010
53	Fort Laramie Fire Department	Yes	Yes		9/4/2008	9/9/2008	11/3/2010	11/8/2010	1/18/2011
54	Fort Laramie Police Department	Yes	Yes	Yes	6/2/2010	6/8/2010	6/29/2010	7/19/2010	7/22/2010
55	Fremont County Ambulance	Yes	Yes	Yes	9/4/2008	9/9/2008	11/4/2008	11/14/2008	1/8/2009
56	Fremont County Fire Protection District	Yes	Yes		9/4/2008	9/9/2008	10/26/2010	10/27/2010	11/1/2010
57	Fremont County Government	Yes	Yes		9/4/2008	9/9/2008	11/4/2008	11/14/2008	12/1/2008
58	Fremont County Public Health	Yes	Yes		9/4/2008	9/9/2008	11/4/2008	11/14/2008	2/10/2009
59	Fremont County Sheriff	Yes	Yes	Yes	12/9/2008	12/9/2008	12/19/2008	1/13/2009	1/20/2009
60	Gillette Police Department	Yes	Yes		6/6/2008	6/10/2008	11/17/2008	11/18/2008	12/5/2008
61	Glendo Volunteer Ambulance Service	Yes	Yes		3/9/2010	3/9/2010	3/29/2010	4/8/2010	4/9/2010
62	Glendo Volunteer Fire Department	Yes	Yes		6/2/2010	6/8/2010	10/15/2010	10/19/2010	11/4/2010
63	Glenrock Fire Department	Yes	Yes		9/10/2010	9/15/2010	10/26/2010	10/27/2010	
64	Glenrock Police Department	Yes	Yes		9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/1/2010
65	Goshen County School District No 1	Yes	Yes		6/6/2008	6/10/2008	11/17/2008	11/18/2008	12/1/2008
66	Goshen County Sheriff's Office	Yes	Yes		9/4/2008	9/9/2008	11/17/2008	11/18/2008	12/3/2008
67	Green River Fire Department	Yes	Yes		3/9/2010	3/9/2010	4/9/2010	4/13/2010	5/24/2010
68	Greybull Fire Department	Yes	Yes		9/17/2009	9/18/2009	11/4/2010	11/8/2010	11/12/2010
69	Guernsey Police Department	Yes	Yes	Yes	6/2/2010	6/8/2010	10/15/2010	10/19/2010	10/26/2010
70	Guernsey Rural Fire District	Yes	Yes	Yes	3/9/2010	3/9/2010	11/3/2010	11/8/2010	11/23/2010
71	Guernsey Volunteer Ambulance Service	Yes	Yes		6/2/2010	6/8/2010	11/3/2010	11/8/2010	11/14/2010
72	Guernsey Volunteer Fire Department	Yes	Yes		6/2/2010	6/8/2010	11/3/2010	11/8/2010	11/14/2010
73	Hartville Volunteer Fire Department	Yes	Yes		3/9/2010	3/9/2010	11/3/2010	11/8/2010	12/12/2010
74	Hawk Springs Fire & Rescue	Yes	Yes		6/2/2010	6/8/2010	6/29/2010	7/19/2010	8/5/2010
75	Hot Springs County Emergency Management	Yes	Yes	Yes	12/9/2008	12/9/2008	12/19/2008	1/12/2009	2/3/2009
76	Hot Springs County Public Health	Yes	Yes		9/4/2008	9/9/2008	11/17/2008	11/18/2008	1/6/2009
77	Hot Springs County Rural Fire District	Yes	Yes	Yes	12/9/2008	12/9/2008	11/17/2008	11/18/2008	12/3/2008
78	Hot Springs County School District #1	Yes	Yes		9/4/2008	9/9/2008	11/17/2008	11/18/2008	12/3/2008

WyoLink System Access Applications									
	Agency	WyoLink	Mutual Aid	SALECS	Date of Inter Ops	Date of PSCC	Membership Agreement AG Office	Membership Agreement Sent	Membership Agreement Signed
79	Hot Springs County Sheriff's Office	Yes		Yes	3/9/2009	3/10/2009	4/13/2009	4/21/2009	5/5/2009
80	Jackson Hole Fire/EMS	Yes	Yes		3/9/2010	3/9/2010	7/20/2010	7/23/2010	8/19/2010
81	Jackson Police Department	Yes	Yes		3/9/2010	3/9/2010	3/24/2010	3/30/2010	3/31/2010
82	Jay Em Fire Protection District	Yes	Yes		9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/5/2010
83	Jeffrey City Fire District	Yes			9/4/2008	9/9/2008			
84	Johnson County	Yes	Yes		3/9/2009	3/10/2009	4/13/2009	4/21/2009	5/5/2009
85	Johnson County Fire District #1	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009	2/18/2009
86	Johnson County School District #1	Yes	Yes		6/6/2008	6/10/2008	11/17/2008	11/18/2008	12/1/2008
87	LaGrange Fire/EMS	Yes	Yes		6/2/2010	6/8/2010	11/4/2010	11/8/2010	
88	Lander Police Department	Yes	Yes	Yes	12/9/2008	12/9/2008	12/19/2008	1/13/2009	1/19/2009
89	Lander Regional Hospital	Yes	Yes		12/7/2009	12/8/2009	2/1/2010	2/4/2010	2/9/2010
90	Lander Volunteer Fire Department	Yes	Yes	Yes	9/4/2008	9/9/2008	11/17/2008	11/18/2008	12/22/2008
91	Laramie County Emergency Management	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	10/19/2010	11/8/2010
92	Laramie County Fire District #1	Yes	Yes		3/4/2008	6/10/2008	10/15/2008	10/19/2010	1/11/2011
93	Laramie County Fire District #2	Yes	Yes		3/4/2008	6/10/2008	11/17/2008	11/18/2008	11/21/2008
94	Laramie County Fire District #4	Yes	Yes	Yes	3/4/2008	6/10/2008	12/19/2008	1/12/2009	11/20/2009
95	Laramie County Fire District #6	Yes			3/4/2008	6/10/2008	1/5/2009		
96	Laramie County Fire District #8	Yes	Yes		9/10/2010	9/15/2010	10/22/2010	10/26/2010	10/31/2010
97	Laramie County School District #1	Yes	Yes		9/4/2008	9/9/2008	10/26/2010	10/27/2010	11/1/2010
98	Laramie County Sheriff's Office	Yes	Yes	Yes	3/4/2008	6/10/2008	11/4/2008	10/19/2010	11/8/2010
99	Laramie Fire Department	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/14/2008	1/19/2009
100	Laramie Police Department	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/14/2008	1/19/2009
101	Laramie/Albany County Records & Communications	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/14/2008	1/19/2009
102	Lincoln County Public Health	Yes			12/9/2008	12/9/2008	12/19/2008	1/12/2009	
103	Lingle Police Department	Yes	Yes	Yes	6/2/2010	6/8/2010			
104	Lingle Volunteer Fire Department	Yes	Yes	Yes	6/2/2010	6/8/2010			
105	Lovell Police Department	Yes	Yes		9/17/2009	9/18/2009	11/4/2010	11/8/2010	2/8/2011
106	Lusk Niobrara Ambulance Service	Yes	Yes		3/9/2010	3/9/2010	4/6/2010	4/8/2010	5/3/2010
107	Lusk Police Department	Yes	Yes	Yes	3/9/2010	3/9/2010	3/29/2010	4/8/2010	5/3/2010
108	Lusk Public Works	Yes			3/9/2010	3/9/2010	3/24/2010	3/30/2010	4/9/2010
109	Lusk Volunteer Fire Department	Yes			3/9/2010	3/9/2010	3/24/2010	3/30/2010	4/9/2010
110	Memorial Hospital of Converse County	Yes	Yes		9/10/2010	9/15/2010	10/26/2010	10/27/2010	11/19/2010
111	Natrona County School District #1	Yes	Yes		6/6/2008	6/10/2008	11/4/2008	11/14/2008	
112	Niobrara County Coroner	Yes		Yes	3/9/2010	3/9/2010	10/4/2010	10/19/2010	
113	Niobrara County Emergency Management	Yes	Yes		3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/16/2010
114	Niobrara County Road and Bridge	Yes			3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/16/2010
115	Niobrara County Sheriff's Department	Yes	Yes	Yes	3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/16/2010
116	North Colorado Med Evac	Yes	Yes		9/17/2009	9/16/2009	11/16/2009	11/20/2009	11/30/2009
117	Park County Department of Solid Waste	Yes			3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/2/2010

WyoLink System Access Applications									
Agency	WyoLink	Mutual Aid	SALECS	Date of Inter Ops	Date of PSCC	Membership Agreement AG Office	Membership Agreement Sent	Membership Agreement Signed	
118 Park County Fire District #1 - Powell	Yes	Yes		9/10/2010	9/15/2010	1/6/2011	1/10/2011	2/1/2011	
119 Park County Fire District #2 - Cody	Yes	Yes		9/10/2010	9/15/2010	10/22/2010	10/26/2010	10/27/2010	
120 Park County Information Technology Department	Yes			3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/2/2010	
121 Park County Office of Homeland Security	Yes			3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/2/2010	
122 Park County Public Health	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009	3/3/2009	
123 Park County Public Works	Yes			3/9/2010	3/9/2010	10/4/2010	10/19/2010	11/2/2010	
124 Park County Sheriff's Office	Yes			12/9/2008	12/9/2008	12/19/2008	1/12/2009	4/4/2009	
125 Pine Bluffs Police Department	Yes	Yes		3/4/2008	6/10/2008	11/17/2008	11/18/2008	11/25/2008	
126 Platte County	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/14/2008	1/20/2009	
127 Platte County Fire District 1F - Wheatland Fire Dept	Yes	Yes		6/2/2010	6/8/2010	7/19/2010	7/23/2010		
128 Platte County Fire District 2F	Yes	Yes		6/2/2010	6/8/2010	11/4/2010	11/8/2010		
129 Platte County Public Health	Yes	Yes		9/4/2008	9/9/2008	11/4/2008	11/14/2008		
130 Powell Police Department	Yes			3/4/2008	6/10/2008	11/4/2008	11/14/2008	11/17/2008	
131 Powell Valley Healthcare EMS	Yes			3/9/2010	3/9/2010	10/4/2010	10/19/2010	10/21/2010	
132 Prairie Center Fire	Yes	Yes		6/2/2010	6/8/2010	6/29/2010	7/19/2010	7/23/2010	
133 Rawlins Fire Department	Yes			3/9/2010	3/9/2010	3/24/2010	3/30/2010	4/6/2010	
134 Rawlins Police Department	Yes	Yes	Yes	3/9/2010	3/9/2010	4/6/2010	4/8/2010	4/23/2010	
135 Riverton Fire Department	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/13/2009	1/13/2009	
136 Riverton Police Department	Yes	Yes	Yes	3/9/2010	3/9/2010	3/24/2010	3/30/2010	4/1/2010	
137 Riverton Memorial Hospital	Yes	Yes	Yes	12/9/2008	12/9/2008	12/19/2008	1/13/2009	10/6/2009	
138 Rocky Mountain Ambulance Service	Yes	Yes	Yes	3/4/2008	6/10/2008	11/11/2008	11/14/2008	11/17/2008	
139 Sheridan County	Yes	Yes	Yes	3/4/2008	6/10/2008	11/4/2008	11/14/2008	12/8/2008	
140 Sheridan County Public Health	Yes	Yes		9/4/2008	9/9/2008	11/4/2008	11/14/2008		
141 Sheridan County School District 3	Yes			3/4/2008	6/10/2008	11/17/2008	11/18/2008	11/24/2008	
142 Sheridan Police Department	Yes	Yes		3/4/2008	6/10/2008	11/17/2008	11/18/2008	11/20/2008	
143 Shoshoni & Arapaho Tribes	Yes	Yes		3/9/2009	3/10/2009	3/24/2010	3/30/2010	6/24/2010	
144 Shoshoni Police Department	Yes			6/2/2010	6/8/2010	6/29/2010	7/19/2010	7/21/2010	
145 Sinclair Police Department	Yes	Yes		3/9/2009	3/10/2009	4/13/2009	4/21/2009	5/7/2009	
146 St. John's Hospital	Yes	Yes		3/9/2010	3/9/2010	3/24/2010	3/30/2010	3/29/2010	
147 Sublette County Public Health	Yes	Yes		12/9/2008	12/9/2008	12/19/2008	1/12/2009		
148 Sublette County Sheriff's Office	Yes	Yes	Yes	3/4/2008	6/10/2008	11/4/2008	11/14/2008	11/18/2008	
149 Sweetwater County Fire District #1	Yes	Yes		3/9/2010	3/9/2010	4/30/2010	5/3/2010	5/6/2010	
150 Sweetwater County Sheriff's Office	Yes			6/6/2008	6/10/2008	11/4/2008	11/14/2008	12/17/2008	
151 Sweetwater Medics Ambulance	Yes	Yes		3/9/2010	3/9/2010	10/15/2010	10/19/2010	10/25/2010	
152 Sweetwater School District #2	Yes	Yes		3/9/2010	3/9/2010				
153 Tensleep Ambulance	Yes	Yes	Yes	9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/15/2010	
154 Tensleep Fire Department	Yes	Yes	Yes	9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/4/2010	
155 Teton County Emergency Management	Yes	Yes	Yes	3/9/2010	3/9/2010	7/19/2010	7/23/2010	8/19/2010	
156 Teton County Public Health	Yes	Yes		9/4/2008	9/9/2008	12/29/2008	11/18/2008	2/17/2009	

WyoLink System Access Applications									
	Agency	WyoLink	Mutual Aid	SALECS	Date of Inter Ops	Date of PSCC	Membership Agreement AG Office	Membership Agreement Sent	Membership Agreement Signed
157	Teton County Sheriff's Office	Yes	Yes	Yes	3/9/2010	3/9/2010	7/19/2010	7/23/2010	8/19/2010
158	Teton Village Fire Department	Yes	Yes		3/9/2010	3/9/2010	3/29/2010	4/8/2010	4/21/2010
159	Thermopolis Police Department	Yes		Yes	12/9/2008	12/9/2008	12/19/2008	1/12/2009	
160	Torrington Community Hospital	Yes			6/2/2010	6/8/2010	6/29/2010	7/19/2010	7/27/2010
161	Torrington EMS	Yes	Yes		6/2/2010	6/8/2010	6/29/2010	7/19/2010	7/28/2010
162	Torrington Police Department	Yes	Yes	Yes	12/9/2008	12/9/2008	12/19/2008	1/12/2009	2/10/2009
163	Torrington Volunteer Fire Department	Yes	Yes		6/2/2010	6/8/2010	6/29/2010	7/19/2010	
164	Tower Communications & Automation, Inc.	Yes			9/17/2009	9/18/2009	10/28/2009	11/3/2009	11/4/2009
165	Town of Wright	Yes	Yes		6/2/2010	6/8/2010	6/29/2010	7/19/2010	7/23/2010
166	U.S. Marshall's Service	Yes	Yes	Yes	3/4/2008	6/10/2008		MOU	7/11/2008
167	U.S. Air Force - F.E. Warren AFB 90CS/90GTCS	Yes			3/9/2009	3/10/2009	4/20/2009	MOU	5/5/2009
168	U.S. Department of Agriculture - APHIS	Yes			3/4/2008	6/10/2008		MOU	7/29/2008
169	U.S. Department of Agriculture Forest Service LE&I	Yes							
170	U.S. Drug Enforcement Agency	Yes	Yes	Yes	3/4/2008	6/10/2008		MOU	
171	U.S. Federal Bureau of Investigations	Yes	Yes	Yes	6/6/2008	6/10/2008		MOU	12/8/2009
172	U.S. Immigration and Customs Enforcement	Yes			3/9/2010	3/9/2010	6/3/2010	MOU	6/29/2010
173	U.S. Transportation Security Administration - DHS	Yes			9/4/2008	9/9/2008		MOU	
174	Uinta County Public Health	Yes	Yes		9/4/2008	9/9/2008	12/19/2008	1/12/2009	2/19/2009
175	University of Wyoming Police Department	Yes			3/4/2008	6/10/2008	2/2/2010	2/4/2009	2/10/2010
176	Veteran Fire Department	Yes	Yes		9/10/2010	9/15/2010	10/22/2010	10/26/2010	10/28/2010
177	Washakie County Public Health	Yes	Yes		9/4/2008	9/9/2008	12/19/2008	1/12/2009	2/3/2009
178	Washakie County Road & Bridge	Yes	Yes	Yes	9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/16/2010
179	Washakie County Sheriff's Office	Yes	Yes	Yes	6/6/2008	6/10/2008	12/19/2008	1/12/2009	2/3/2009
180	West Park Hospital	Yes			3/9/2009	3/10/2009	4/13/2009	4/21/2009	5/4/2009
181	Western Wyoming Community College	Yes	Yes		Tabled	Tabled			
182	Weston County Public Health	Yes			12/9/2008	12/9/2008	12/19/2008	1/12/2009	2/6/2009
183	Wheatland Police Department	Yes	Yes	Yes	6/2/2010	6/8/2010	8/16/2010	8/23/2010	9/21/2010
184	Wireless Advanced Communications	Yes			9/17/2009	9/18/2009	10/28/2009	11/3/2009	11/5/2009
185	Worland Ambulance	Yes	Yes	Yes	9/10/2010	9/15/2010	11/8/2010	11/22/2010	12/9/2010
186	Worland Fire Department	Yes	Yes	Yes	9/10/2010	9/15/2010	10/22/2010	10/26/2010	10/27/2010
187	Worland Police Department	Yes	Yes	Yes	9/10/2010	9/15/2010	11/8/2010	11/22/2010	11/23/2010
188	Wyoming Board of Outfitters and Guides	Yes	Yes	Yes	9/10/2010	9/15/2010	10/22/2010	10/26/2010	11/4/2010
189	Wyoming Bureau of Land Management	Yes	Yes	Yes	5/29/2009	6/1/2009		MOU	10/1/2009
190	Wyoming Department of Agriculture	Yes	Yes	Yes	9/4/2008	9/9/2008	11/4/2008	11/14/2008	12/11/2008
191	Wyoming Department of Corrections	Yes	Yes	Yes	3/9/2009	3/10/2009	4/13/2009	4/21/2009	4/23/2009
192	Wyoming Department of Health	Yes	Yes	Yes	3/4/2008	6/10/2008	11/17/2008	11/18/2008	11/24/2008
193	Wyoming Department of Transportation	Yes	Yes	Yes	3/4/2008	6/10/2008	11/4/2008	11/14/2008	12/2/2008
194	Wyoming Division of Criminal Investigation	Yes	Yes	Yes	9/4/2008	9/9/2008	11/17/2008	11/18/2008	11/14/2008
195	Wyoming Fire Marshal's Office	Yes	Yes	Yes	3/4/2008	6/10/2008	11/4/2008	11/14/2008	11/7/2008

WyoLink System Access Applications										
	Agency	WyoLink	Mutual Aid	SALECS	Date of Inter Ops	Date of PSCC	Membership Agreement AG Office	Membership Agreement Sent	Membership Agreement Signed	
196	Wyoming Game and Fish Department	Yes	Yes	Yes	6/6/2008	6/10/2008	11/4/2008	11/14/2008	11/21/2008	
197	Wyoming Law Enforcement Academy	Yes	Yes		9/17/2009	9/16/2009	10/28/2009	11/3/2009	11/10/2009	
198	Wyoming Medical Center - Casper	Yes	Yes		3/4/2008	6/10/2008	8/16/2010	8/23/2010	9/25/2010	
199	Wyoming Military Department	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/14/2008	11/23/2008	
200	Wyoming Office of Homeland Security	Yes	Yes		3/4/2008	6/10/2008	11/4/2008	11/14/2008	11/6/2008	
201	Wyoming State Engineers Office	Yes			6/6/2008	6/10/2008	11/4/2008	11/14/2008	11/17/2008	
202	Wyoming State Lands - Forestry Division	Yes			9/4/2008	9/9/2008	11/4/2008	11/14/2008	12/1/2008	
203	Wyoming State Parks, Historic Sites & Trails	Yes	Yes	Yes	3/4/2008	6/10/2008	11/4/2008	11/14/2008	11/19/2008	
204	Yellowstone Regional Airport	Yes	Yes		12/7/2009	12/8/2009	2/1/2010	2/4/2010	2/5/2010	
205	Yoder Fire Department	Yes	Yes		6/2/2010	6/8/2010				
	September 2010 - December 2010									
206	Green River Police Department	Yes	Yes	Yes	12/6/2010	12/7/2010	1/6/2011	1/10/2011	2/2/2011	
207	Converse County Emergency Management	Yes	Yes	Yes	12/6/2010	12/7/2010	1/6/2011	1/10/2011	2/1/2011	
208	Hulett Police Department	Yes			12/6/2010	12/7/2010	1/6/2011	1/10/2011	1/18/2011	
209	Laramie County Public Works	Yes			12/6/2010	12/7/2010	1/6/2011	1/10/2011		
210	Laramie County Fire District #10	Yes			12/6/2010	12/7/2010	1/6/2011	1/10/2011		
211	Laramie County Fire District #3	Yes			12/6/2010	12/7/2010	1/6/2011	1/10/2011	1/24/2011	
212	Buckskin Mining Company	Yes			Tabled	Tabled				
213	Laramie County Fire District #5	Yes	Yes		12/6/2010	12/7/2010	1/6/2011	1/10/2011		
214	American Medical Response Ambulance Service	Yes			12/6/2010	12/7/2010	1/11/2011	1/20/2011	2/2/2011	
215	Casper/Natrona County Public Safety Communications	Yes	Yes	Yes	12/6/2010	12/7/2010	1/11/2011	1/19/2011	1/19/2011	
216	U.S. Fish and Wildlife Services	Yes	Yes	Yes	12/6/2010	12/7/2010				
217	Colorado Division of Emergency Management	Yes	Yes		12/6/2010	12/7/2010	1/6/2011	1/10/2011	2/1/2011	
218	Rock Springs Regional Ambulance	Yes	Yes		12/6/2010	12/7/2010	1/6/2011	1/10/2011	1/11/2011	
	December 2010 - March 2011									
219	Goshen County Road & Bridge	Yes	Yes							
220	Weston County Fire Protection District	Yes								
221	Goshen County Public Health	Yes	Yes							
222	Laramie County Community College	Yes	Yes							

Narrowbanding 101

Robert Symons, Wyoming Statewide Interoperability Coordinator

Alan Komenski, Washington Statewide Interoperability Coordinator

The purpose of this article is to spread awareness of the Federal Communications Commission (FCC) mandate regarding radio communication system narrowband compliance, and to provide an overview of the mandate and its impact on public safety agencies.

The next two years will be a busy time for public safety agencies across the Nation. With the Federal Communications Commission's (FCC) January 1, 2013 narrowbanding mandate deadline approaching, agencies will be devoting significant resources to planning for and executing a coordinated transition. To help agencies with the transition, this article provides an overview of the narrowbanding mandate and its impact on public safety agencies. This is the first in a series of narrowbanding articles that will be distributed in the coming months; each of these stakeholder-written articles will provide insight and suggested resources to help with the transition.

What is Narrowbanding?

Simply put, narrowbanding requires VHF and UHF radios to use less radio bandwidth (i.e., spectrum), thus leaving the vacated spectrum available to form new channels. Narrowbanding ensures more efficient use of the spectrum and greater spectrum access for public safety and non-public safety users. Narrowbanding may relieve channel congestion and result in increased channel availability. Narrowband spectrum has been coordinated to users since 1997. Currently, there is often not enough spectrum available for licensees to expand their existing systems or implement new systems.

Overview of FCC Narrowband Mandate and Deadlines

The FCC mandated that all non-Federal public safety licensees operating 25 kHz (wideband) radio systems in the VHF and UHF bands must migrate to 12.5 kHz (narrowband) channels **on or before January 1, 2013**. Many local public safety radio systems have not migrated to 12.5 kHz channels yet. With less than two years to coordinate narrowbanding efforts, concerns are growing that many public safety agencies will not meet the deadline.

This upcoming deadline affects all FCC-licensed State and local public safety radio systems. Wideband radio operation will violate FCC regulations beginning in 2013, and agencies not meeting that deadline face the loss of communication capabilities or fines.

Because the original narrowbanding rules were adopted in 1995, the FCC believes organizations have had sufficient time to prepare for this migration. Planning for the narrowband migration in advance of the deadline is essential to avoid shop scheduling issues (as they will be overwhelmed with requests closer to the deadline) and limited availability of replacement equipment. Failure to address the narrowband migration requirements may result in

Narrowbanding 101

*Robert Symons, Wyoming Statewide Interoperability Coordinator
Alan Komenski, Washington Statewide Interoperability Coordinator*

communications interference, and loss of interoperability. **Agencies should also note that it is highly unlikely that the FCC will extend the January 1, 2013 deadline.**

Who is Affected?

This mandate affects all radio systems—including voice, data (Supervisory Control and Data Acquisition [SCADA]) and telemetry—operating at VHF (150-174 MHz) and UHF (421-512 MHz) utilizing FCC Part 90 frequencies made up of the public safety and industrial/business licensees. This includes, but is not limited to State and local governments, public safety agencies, public works, utilities, hospitals, private industry, higher education institutions, and K-12 schools. Certain FCC frequencies designated for paging use are excluded from the narrowbanding mandate as well as radio equipment that meets the FCC 4.8 KBPS data rate per 6.25 KHz channel spacing or 9.6 KBPS data rate at 12.5 KHz channel spacing or 19.2 KBPS data rate for 25 KHz channel spacing.

How to Prepare for Narrowbanding

1) Verify that your company or organization has a current and valid FCC Part 90 radio station license. Click here to do a FCC License

search:<http://wireless2.fcc.gov/UlsApp/UlsSearch/searchAdvanced.jsp>

2) Conduct a full inventory of all radios in your system, including all portable (hand-carried) radios, mobile (in-vehicle) radios, dispatcher-used radios, wireless data or SCADA radios, and on- or off-site base or repeater radios.

3) Contact a local professional two-way radio service vendor for assistance in determining which models are capable of being re-programmed for narrowband operation and which models are not. Most new equipment has the capability for both 25 kHz and 12.5 kHz operation, because any VHF/UHF radio equipment accepted by the FCC after February 14, 1997, had to have 12.5 kHz capability.

4) Initiate the internal business process of budgeting for and procuring any new narrowband capable replacement radios that may be needed as well as contracted labor to program radios. Many public safety agencies only have one budget cycle left to secure funding.

5) Develop a "wideband" to "narrowband" system conversion plan that reflects well-coordinated logistical and implementation strategies. The plan should address:

- a) The replacement and installation of any new narrowband-capable off-site base or repeater station radio(s) needed in advance

Narrowbanding 101

Robert Symons, Wyoming Statewide Interoperability Coordinator

Alan Komenski, Washington Statewide Interoperability Coordinator

- b) The reprogramming of all radios in a system; this should occur simultaneously, if possible, to assure minimal disruption to normal radio communication operations
- c) Potential loss of radio system coverage
- d) Include local, regional, and statewide mutual aid channels

6) Coordinate narrowbanding implementation schedules with neighboring public safety agencies and other non-governmental agencies that might access the channels that you are responsible for. Coordination with other agencies is an essential component of the narrowbanding process. If coordination does not take place, communications with other critical agencies may be compromised; this will prove especially damaging during emergency situations.

7) As soon as possible, schedule and coordinate with your radio service vendor dates and times for the actual system conversion (or cutover). Ensure that all radio users have been advised in advance and are aware of the process. Try to coordinate narrowbanding with regularly scheduled radio maintenance, if possible.

8) Finally, modify your FCC radio station license to remove any "wideband" emission designators, replacing them with the correct "narrowband" emission designators. This step may occur earlier in the process or at the end; regardless, it needs to take place before the process can be considered complete. Click here for instructions on how to modify your FCC license:
[http://vcomm.vermont.gov/sites/vcomm/files/Narrowbanding - FCC Instructions 01 11 .pdf](http://vcomm.vermont.gov/sites/vcomm/files/Narrowbanding_-_FCC_Instructions_01_11_.pdf)

Additional Information Resources:

The following resources or websites may provide additional information on narrowbanding.

1. **FCC Narrowbanding Website:** Includes a countdown clock, recent articles written about narrowbanding, links to helpful resources, and FCC contact information. (<http://www.fcc.gov/pshs/public-safety-spectrum/narrowbanding.html>)
2. **FCC Narrowbanding Mandate – A Public Safety Guide for Compliance:** A guide published by the International Association of Fire Chiefs and International Municipal Signal Association that provides guidance to State and local public safety entities on the requirements of the FCC Narrowbanding Mandate. (http://www.iafc.org/associations/4685/files/commComm_Narrowbanding.pdf)
3. **NPSTC Narrowbanding Website:** A comprehensive list of narrowbanding resources including technical briefs, articles about the narrowbanding process, the cost of

Narrowbanding 101

Robert Symons, Wyoming Statewide Interoperability Coordinator

Alan Komenski, Washington Statewide Interoperability Coordinator

narrowbanding, and general fact sheets about narrowbanding.

<http://www.npstc.org/narrowbanding.jsp>

4. **WirelessRadioNarrowbanding Website:** Provides information for FCC Part 90 Private Land Mobile Radio (LMR) licensees, dispatch system managers, consultants, integrators, sales and service facilities and end-users facing the narrowbanding deadline.

<http://wirelessradio.net/>

5. **Vermont Communications (VCOMM) Narrowbanding Website:** Provides information about what narrowbanding is, how to prepare for the deadline, instructions on how to narrowband FCC licenses, and links to useful narrowbanding resources.

<http://vcomm.vermont.gov/narrowbanding>