Association of American Railroads (AAR)

Frequency Assignment Plan (FAP)

Nov-13

The original frequency assignments 07 to 97 listed below are based on a channel spacing of 15 Khz. The narrowband channels 107 to 197 listed below fall between existing original assignments and are based on a 7.5Khz channel spacing. It now appears these narrowband channels will not be implemented after all.

The AAR at this point is recommending that railroads adopt a 6.25Khz channel spacing instead, and that the new narrowband "in between" frequencies not be used until after the switch from analog to a digital format on a future date yet to be announced. Tests with digital communications on the original channels are currently being conducted and will first be used on yard and support channels before any road channels.

Current Motorola digital radios built to the P25 APCO standard will only operate on the 7.5Khz spacing while Kenwood and ICOM have jointly developed a new digital standard called NXDN that supports the 6.25Khz spacing the AAR is currently recommending to the railroads.

Current railroad radios that have been programmed for narrowband use should show a leading zero in the display, for example "007" instead of "07".

Digital channel numbers are anticipated to be all in the 300 number series.

Only time will tell, but for now your conventional scanners are safe from becoming obsolete.

Original Assignments		7.5 Khz Narrowband Channels	
Channel	Frequency	Channel	Frequency
07	160.215		
		107	160.2225
08	160.230		
		108	160.2375
09	160.245		
		109	160.2525
10	160.260		
		110	160.2675
11	160.275		
		111	160.2825
12	160.290		
		112	160.2975
13	160.305		
		113	160.3125
14	160.320		

15	160.335
16	160.350
17	160.365
18	160.380
19	160.395
20	160.410
21	160.425
22	160.440
23	160.455
24	160.470
25	160.485
26	160.500
27	160.515
28	160.530
29	160.545
30	160.560
31	160.575
32	160.590
33	160.605
34	160.620
35	160.635
114	160.3275
115	160.3425
116	160.3575
117	160.3725
118	160.3875
119	160.4025
120	160.4175
121	160.4325
122	160.4475
123	160.4625
124	160.4775
125	160.4925
126	160.5075
127	160.5225
128	160.5375
129	160.5525
130	160.5675
131	160.5825
132	160.5975
133	160.6125
134	160.6275

36	160.650
37	160.665
38	160.680
39	160.695
40	160.710
41	160.725
42	160.740
43	160.755
44	160.770
45	160.785
46	160.800
47	160.815
48	160.830
49	160.845
50	160.860
51	160.875
52	160.890
53	160.905
54	160.920
55	160.935
56	160.950
135	160.6425
136	160.6575
137	160.6725
138	160.6875
139	160.7025
140	160.7175
141	160.7325
142	160.7475
143	160.7625
144	160.7775
145	160.7925
146	160.8075
147	160.8225
148	160.8375
149	160.8525
150	160.8675
151	160.8825
152	160.8975
153	160.9125
154	160.9275
155	160.9425

57	160.965
58	160.980
59	160.995
60	161.010
61	161.025
62	161.040
63	161.055
64	161.070
65	161.085
66	161.100
67	161.115
68	161.130
69	161.145
70	161.160
71	161.175
72	161.190
73	161.205
74	161.220
75	161.235
76	161.250
77	161.265
156	160.9575
157	160.9725
158	160.9875
159	161.0025
160	161.0175
161	161.0325
162	161.0475
163	161.0625
164	161.0775
165	161.0925
166	161.1075
167	161.1225
168	161.1375
169	161.1525
170	161.1675
171	161.1825
172	161.1975
173	161.2125
174	161.2275
175	161.2425
176	161.2575

78	161.280	177	161.2725	
79	161.295	178	161.2875	
80	161.310	179	161.3025	
81	161.325	180	161.3175	
82	161.340	181	161.3325	
83	161.355	182	161.3475	
84	161.370	183	161.3625	
85	161.385	184	161.3775	
86	161.400	185	161.3925	
87	161.415	186	161.4075	
88	161.430	187	161.4225	
89	161.445	188	161.4375	
90	161.460	189	161.4525	
91	161.475	190	161.4675	
92	161.490	191	161.4825	
93	161.505	192	161.4975	
94	161.520	193	161.5125	
95	161.535	194	161.5275	
96	161.550	195	161.5425	
97	161.565	196	161.5575	
		197	161.610	(unconfirmed)

UHF Frequency Allocations:

(No specific AAR channel numbers assigned)

(Used individually, or paired in repeater operation with lower frequency as the output)

452.900		**457.900**	
452.90625	**(data only)**	**457.90625**	**(data only)**
452.9125		**457.9125**	
452.91875	**(data only)**	**457.91875**	**(data only)**
452.925		**457.925**	
452.93125	**(data only)**	**457.93125**	**(data only)**
452.9375		**457.9375**	
452.94375	**(data only)**	**457.94375**	**(data only)**
452.950		**457.950**	
452.95625	**(data only)**	**457.95625**	**(data only)**
452.9625		**457.9625**	
452.96875	**(data only)**	**457.96875**	**(data only)**