

VHF/UHF NARROWBANDING

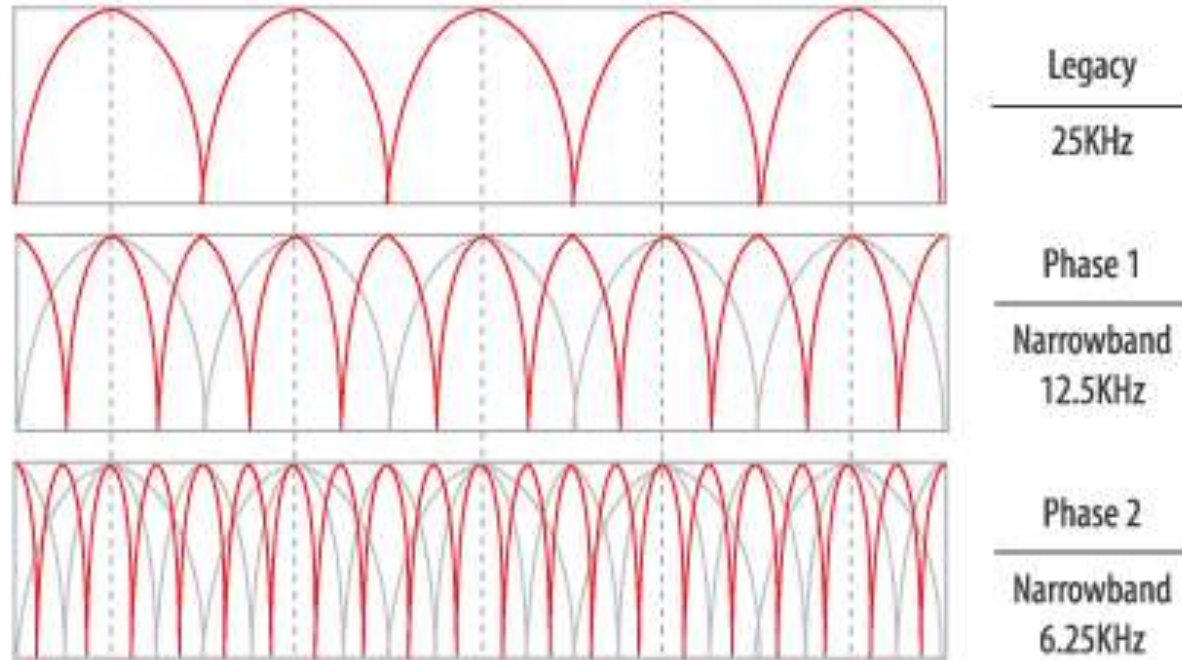
PRESENTED BY
PAUL BOUDREAU
ALL-COMM TECHNOLOGIES, INC.

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ALLCOMM
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Reason for mandate: Spectral Efficiency & More Channels



- Decided in 1996!
- Original Deadline was 1998 then 2003...

NARROWBANDING



TRUE!

- You can change your license parameters via Internet.
- Your license will be cancelled if it is not changed to narrowband compliance.
 - 12.5 KHz operation is mandated.

NARROWBANDING



FALSE!

- Narrowband radios are expensive!
- Licensees end up with TWICE as many channels!
- Spectrum is being reallocated to specific groups!
 - Analog Systems will not be compliant.
 - Digital Operation is MANDATED.

NARROWBAND CHECKLIST



DO YOU HAVE A VALID LICENSE?

A license is required to operate any part 90 VHF or UHF (150 Mhz-512 Mhz) radio system. If you do not have a valid license, you must apply or re-coordinate. If you do have a valid license, you will need to determine what frequencies are programmed in your radios and ascertain whether a license modification is required. It is recommended that you seek the assistance of a "certified Frequency Coordinator."



VERIFY THAT YOUR RADIOS ARE "NARROW BAND CAPABLE"

Radios that are not capable of being reprogrammed and set to narrowband will need to be replaced. Check with your radio dealer to see if your radio can be reprogrammed. Most newer radios should be capable of migrating from wide to narrow band mode.



CHECK YOUR LICENSE

Look at your license from the Federal Communications Commission. On the far right is a column labeled "Emission Designator". If the first two digits are greater than 11 it will need to be modified. In the example to follow, below the first two frequencies have an emission designator of 20K0F3E. This is wide band voice. The license will require a modification prior to the Mandatory deadline of January 1st, 2013.

EMMISSION DESIGNATOR

ty: BOISE County: ADA State: ID
it (NAD83): 43-33-38.6 N Long (NAD83): 116-10-14.4 W ASR No.: N/A Ground
rea of operation
nd Mobile Control Station meeting the 6.1 Meter Rule: ID
rea of operation
operating within a 10.0 km radius around fixed location 1

frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)
0464.4250000	FB2	1		20K0F3E	90.000	500.000
0469.4250000	FX1	3		20K0F3E	25.000	45.000
0451.3375000	MO	75		11K2F3E	2.000	
0452.3125000	MO	75		11K2F3E	2.000	

OTHER IMPORTANT FACTS

- ❑ All existing Part 90 radio systems operating on frequencies between 150-512 MHz have to convert those systems either to 12.5 kHz bandwidth or to a technology that provides one voice path per 12.5 kHz of bandwidth or provides a data rate of 4800 bps/6.25 kHz.
- ❑ Most radios manufactured since 2000 are narrowband capable!
- ❑ This Deadline is not expected to be extended any further by the FCC, having done so twice already.
- ❑ Licensees will be required to certify to the Commission that they have made the technical necessary changes and are using narrowband equipment.
- ❑ Licensees that do not meet this deadline will be cancelled by the FCC and relicensing of cancelled systems will become very difficult.

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Technologies Inc.



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Paul Boudreau

ALL-COMM Technologies, Inc.

5 Whitmore Road

Revere, MA 02151

Tel: 781-289-3000

FAX: 781-289-7300

E-mail:

pboudreau@allcomm1.com

Thank You!