

## Wireless Spectrum Licenses in the VHF (150 MHz) Public Coast Band Ideal for Utility, Critical Infrastructure and Rail Applications Available in the Southwest, Central Texas, and Northern Plains

Select Spectrum represents multiple license holders, including Susan L. Uecker and Associates, Receiver and manager, in offering **VHF Public Coast (VPC) FCC licensed spectrum** of up to 400 kHz bandwidth each across portions of 6 states. Key geographic areas include most of Arizona and New Mexico and portions of Eastern California, Northern Nevada and Western & Central Texas providing coverage to a combined population of over 10 million. Available spectrum varies, with 76 to 400 kHz of bandwidth in each VPC market.

Wisc South Dakota Wyoming lowa Nebraska Nevada Utah Colorado Kansas California Missouri Arkansas Oklahoma New Mexico Arizona Missis Texas Louisian

Available markets in the offering are shown in the map below.

VPC spectrum has excellent propagation and can be used for a broad range of applications, including broadcast or two-way; mobile or fixed; data, voice or video. Licenses are in use by and recommended for utility, critical infrastructure, Land Mobile Radio (LMR), Surveillance Control and Data Acquisition (SCADA), M2M/Internet of Things (IoT), and Oil & Gas operations.

The VPC band is shown with neighboring service groups below:



VPC licenses typically consist of 32 distinct 12.5 kHz channels between 157.0-157.5 & 161.75-162.05 MHz which can be used to separate transmit and receive. These channels are interleaved and allow for two-way transmissions that may be divided between remote and base frequencies (Frequency Division Duplex) or may utilize the channel in a Time Division Duplex (aka halfduplex) mode. Maximum downlink power is 50 Watts and maximum uplink power is 25 Watts, which provides for long range, high reliability and excellent propagation. Networks may employ point-to-point, point-multipoint (tall site) and/or cellular architectures and can support throughput of up to 800 kbps or dozens of voice calls per site. <u>VPC spectrum is held by a</u> combination of local and State governments, utilities, and a variety of other organizations across the nation for a variety of applications, including for public safety.

Sellers will partition the licenses geographically or spectrally to match buyer requirements. Buyers may disaggregate their licenses further in accordance with FCC rules Part 80.60.

Equipment for the band is made by Ondas Networks <u>www.ondas.com</u>, 4RF <u>www.4rf.com</u>, Harris <u>https://www.harris.com/</u>, GE Grid Solutions <u>https://www.gegridsolutions.com</u>, XetaWave <u>www.xetawave.com</u>, Motorola Solutions <u>https://www.motorolasolutions.com/</u> and Tait Communications <u>https://www.taitradio.com</u>.

Basic information about the overall offering is shown below. Please contact us for additional information regarding these licenses.

Call Sign	Market Code	Market Name	2016 POPs	kHz (Max)	2016 MHz POPs
WQGU231	VPC006	Southern Pacific	24,829	162.5	3,004
WQEH915	VPC006	Southern Pacific	79,838	300	18,166
WPOJ539	VPC017	Abilene, TX	229,781	150	34,467
WPTI484	VPC018	San Angelo, TX	219,437	76	16,677
WPOJ521	VPC034	Reno, NV-CA	816,317	393.75	321,425
WPOJ523	VPC037	Flagstaff, AZ-UT	476,496	400	190,598
WPOJ524	VPC039	Albuquerque, NM-AZ	1,105,963	400	442,385
WQGN916	VPC040	El Paso, TX-NM	1,154,406	400	461,762
WPOJ525	VPC041	Phoenix-Mesa, AZ-NM	4,818,337	400	1,927,935
WPOJ526	VPC042	Tucson, AZ	1,187,961	400	475,184
<u>Total</u>			<u>10,113,365</u>	<u>76-400</u>	<u>3,950,448</u>

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