

Meeting the Rail Industry's Positive Train Control Spectrum Needs



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RAIL SAFTEY IMPROVEMENT ACT of 2008 (RSIA)

- RSIA did not allocate spectrum for PTC
- RSIA did not direct the FCC to allocate spectrum for PTC
- Communications Act generally requires FCC to assign spectrum by auction
 - Auction 89, 218-219 MHz and 220 to 222 MHz Licenses (postponed August 2010)

Wireless Bureau

PTC Spectrum Needs Inquiry WT Docket No. 11-79

Initiated by Public Notice, May 2011 "Permit-but-Disclose" Proceeding

Substantive written communications and a summary of substantive oral communications with FCC staff must be filed on the record within two (2) business days.

TTCI Locomotive



**Ample Licensed
Spectrum is Available
in the Secondary
Market to Meet PTC
Needs**

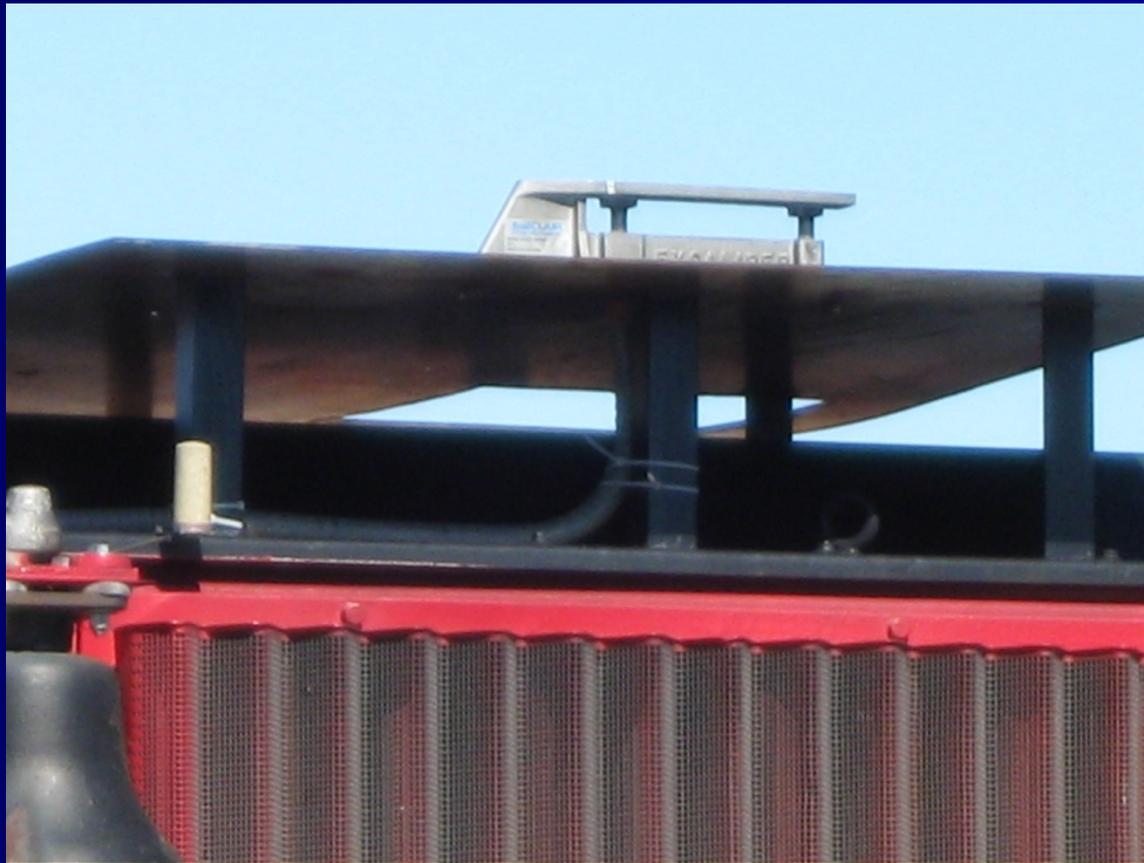
PTC Cab Radio



Secondary Markets

- Identify licensed spectrum needs
 - Contiguous/Non-Contiguous
 - Channelization 12.5 kHz, 25 kHz
 - Spectrum Band
 - AMTS (217-218, 219-220 MHz)
 - IVDS (218-219 MHz)
 - 220-222 MHz
 - Other
- Contact spectrum holder/broker

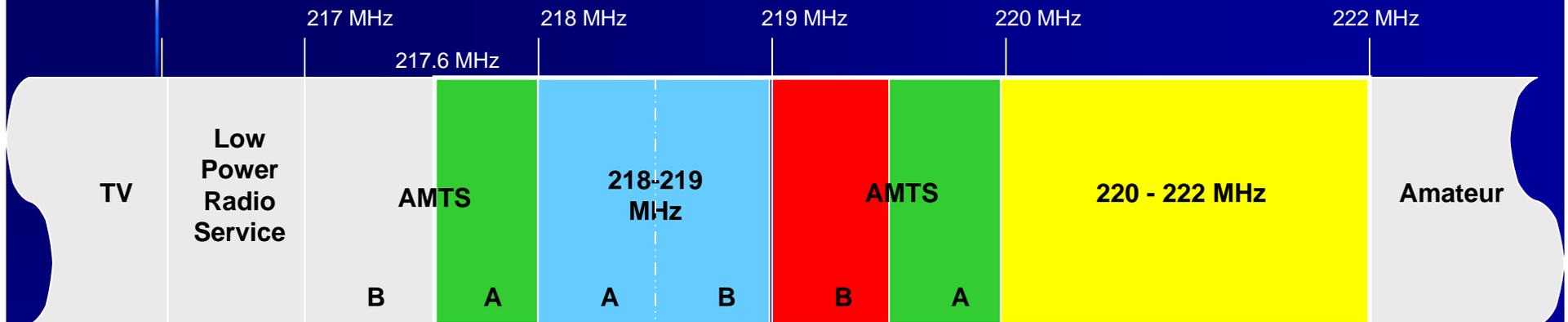
PTC Cab Antenna



Secondary Markets

- Consider transfer/assignment mechanisms
 - Partitioning of geographic area
 - Disaggregation of required spectrum amount
 - Acquisition or long-term lease
- Consider whether technical waivers may be necessary

Spectrum Targeted by Freight Railroads for Positive Train Control (217.6 MHz – 222 MHz)



↑
Class I Freight Rail Consortium (PTC-220) holds @ 380 kHz of spectrum nationwide (and an additional 100 kHz in key markets, including Los Angeles, San Francisco, and St Louis)

PTC Base Station



Secondary Markets

- Seek prior FCC approval of assignment, lease, and waivers if applicable
- FCC considers assignments/leases usually within 60 days (possibly longer for some waivers)

National Rural Telecommunications Cooperative (NRTC)

220 MHz Nationwide Licensee

Kurt Schaubach, VP CTO

kschaubach@nrtc.coop

(703) 467-1420

PTC-220

220 MHz Nationwide Spectrum

Craig B. Johnston

PTC-220 Spectrum Coordinator

CRAIGJOHNSTON@up.com (preferred)

(402) 544-0574

Ed L. Hollingsworth

Chair PTC-220 Spectrum Committee

ELHOLLIN@up.com

(402) 544-5464

SPECTRUM BRIDGE

(Broker)

- 218-219 MHz (Chicago, Dallas, Philadelphia, others)
- 220-222 MHz

Steven Tearpock
Manager Business Development

s.tearpock@spectrumbridge.com

(407) 792-1570

SKYBRIDGE

- AMTS A and B Blocks
- 220-222 MHz
- Warren Havens, President
 - (510) 841-2220; warren.havens@sbcglobal.net
- Jimmy Stobaugh
 - (510) 841-2230; jstobaugh@telesaurus.com

Select Waiver of FCC Rules in the Public Interest

Technical Rule Waivers

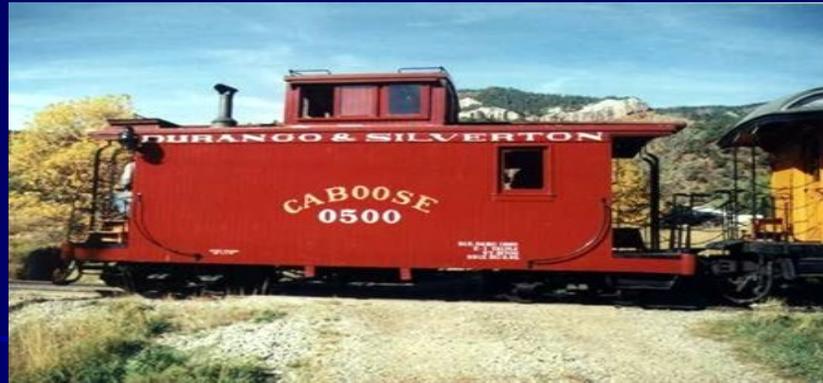
PTC–220, DA 09–1425 (2009)

- Construction Schedule
- Base/Mobile Configuration
- Station ID
- Commercial Use

SEPTA, WPOI 924 (2012)

- Base/Mobile Configuration
- Station ID

**Temporary Waiver of
Service Discontinuance Rule
to Enable Construction of
Long Island and Metro
North Railroads' PTC System**



- Please do not hesitate to contact FCC staff for assistance.
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