

Norman R Coltri, PE PMP

Overview

As principal at NRCTelecom, Norm Coltri provides consulting services with emphasis on frequency acquisition and spectrum management. He participates with the various Regional Planning Committees to reduce interference while maximizing frequency reuse, and applies engineering analysis based upon EIA/TIA TSB-88 and other standards to frequency licensing proposals.

Specific areas of expertise include:

SPECTRUM MANAGEMENT & LICENSING

- Locating and licensing available new LMR channels
- Preparing FCC license applications and working with frequency coordinators
- Developing channel plans and channel reuse allocations
- Interference Analysis using RadioSoft ComStudy and RLA's LMRPlanner modeling

PUBLIC SAFETY REGIONAL PLANNING

- NPSPAC 800 MHz applications to local RPCs
- NCC 700 MHz applications to local RPCs
- Interference analysis as required by RPCs
- CAPRAD / SpectrumWatch compliant applications

TRUNKING BELOW 470 MHZ

- Locating licensable spectrum for trunking application
- Develop required FCC contour analysis for co-channel and adjacent channel exclusive trunking allocation as indicated in Part 90.187

CONTOUR DEVELOPMENT AND ANALYSIS

- 800 MHz FCC 40/22 dB μ co-channel analysis
- NPSPAC 800 MHz 40/25/5 dB μ RPC analysis
- NCC 700 MHz 40/60/5 dB μ RPC analysis
- Below 470 MHz Trunking analysis following FCC Part 90.187 and LMCC guidelines

FCC WAIVERS

- Technical Rule Waivers to the FCC
- Work with the clients legal representative to provide technical support

Norm's prior experience includes sixteen years with RCC Consultants and Black and Veatch, Inc. lastly serving as Regulatory Specialist. Responsibilities included assisting with the location and licensing of LMR spectrum, much in highly spectrally impacted areas of the country.

Norm also served twenty-nine years with the New Jersey State Police providing engineering support for the development of a statewide 800 MHz trunked radio system, then as police frequency coordination for all agencies within the state. Norm was court recognized as an expert witness in the area of RF interference. He also served as a Commissioner on the NJ 9-1-1 Commission to foster the development of the first statewide emergency number calling network.

Since entering private consulting, Norm has participated in numerous public safety and critical infrastructure projects and has served clients such as City of Richmond, CA, State of Delaware, City of Philadelphia, New Jersey Transit Authority, Port Authority of NY & NJ, Yale University, Commonwealth of Pennsylvania, Jersey Central Power and Light, PPL Utilities, East-West Gateway Council of Governments, County of St Charles MO, County of Baltimore, City of Houston, and many other public safety and critical infrastructure agencies.

Experience & Skills

- Spectrum Management
- New Frequency Search
- Channel Planning
- Wireless Regulatory, Zoning & Site Acquisition
- Interference Analysis
- Regional Planning at 700 and 800 MHz
- Trunking below 470 MHz Licensing
- FCC Contour Development and Analysis
- FCC Technical Waivers

Technical Knowledge

- VHF, UHF, 800/700 Conventional and Trunked
- 700/800 MHz Analysis of Channel Allocations
- P25I, P25II, OpenSky, TETRA
- Regional Planning Committees
- LMRPlanner & ComStudy RF modeling software

Industry Experience

- Public Safety Telecom
- Transportation Telecom
- Energy/Critical Infrastructure

Education & Certification

- New Jersey Institute of Technology (BSEE)
- Licensed Professional Engineer (NJ & PA)
- Registered Project Management Professional

Affiliations

- Association of Public-Safety Communications Officials - International (APCO), Life Member
- Institute of Electrical and Electronics Engineers (IEEE), Senior Life Member
- Radio Club of America, Fellow

Previous Employment

- New Jersey State Police
- RCC Consultants, Inc.
- Black & Veatch Corp.