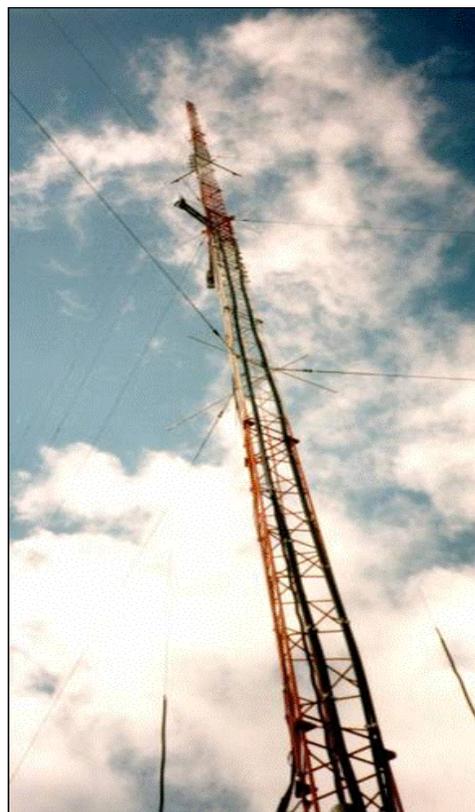


# AM Colocation - Broadcast Infrastructure for Broadband Acceleration



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1 May 2012



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# AM & Wireless – Same Physics, Different Infrastructure

- “100 years and a 1000 Megahertz”
- The often forgotten AM tower
- AM towers are “hot” - wireless antennas are not
- Isolation technology required and commercially available now.



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# AM towers – Ripe for the Picking



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# Cultural / Economic / Regulatory Concerns

- **AM and wireless are regulated under different FCC bureaus.**
- **Many AM stations are economically distressed, few are affluent. Many “mom and pop” AMs**
- **Historically, wireless companies avoided AMs due to detuning**
- **Antenna space income can be a major revenue stream for many strapped AM stations.**
- **Wireless collocation on AM towers requires no prior FCC authorization.**

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# Benefits of AM Colocation

- **Thousands of unused sites in urban and poor coverage areas**
- **Less A&E / Site Acq. work than a “greenfield site” (CapEx budget advantage)**
- **Existing structures - little or no community resistance**
- **Zoning/permitting facilitated**
- **Faster time to market for new wireless facilities**
- **New income stream and maintenance relief for AM’s.**

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# AM Colocation Implementation

- **Compatibility between AM and wireless systems required.**
- **Some older AM towers may require structural reinforcing.**
- **RF safety and security issues must be addressed.**
- **AM ground system must be preserved.**
- **Colocation hardware should durable and designed to “failsafe” in favor of the wireless operator.**
- **Colocation systems typically furnished and controlled by the wireless operator.**
- **If required, AM files Form 302 after construction.**

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# Examples: AM – 4G Wireless Colocation



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