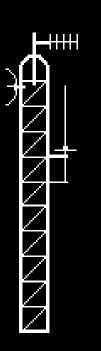
# So, you want to put up a tower . . .

... and then you want to climb it too?

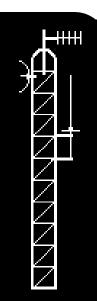


Robert Isby, Jr.
Owner

**Algonquin Communications** 

**April 6, 2009** 

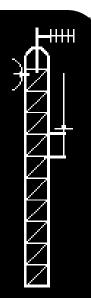
The process of tower erection begins long before the actual placing of the structure.



- Technical Considerations
- Environmental Considerations
   (Don't forget Public Perception)
- Practicality and Reasonableness

#### **Technical Considerations**

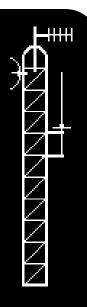
- Tower Loading
  - What is the purpose of the tower?
     HF, VHF, UHF, SHF, Other
  - Structural Analysis Including Wind and Ice Loading
- Site / Space Availability
  - Building Attachment Points
  - Base mount consideration
  - Guy Wire Path Assessment



### **Technical Considerations**

- Suitable / Adequate Antenna Location(s)
  - Licensed Parameters
  - Meets Goals / Needs

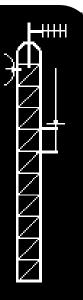
No such thing as a "Standard Tower"



#### **Environmental Considerations**

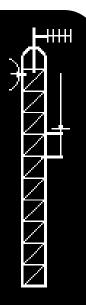
- Zoning Approval
  - PRB1
  - NIMBY (Perception)
  - SHPO, NHPA, SEQRA, NEPA . . .
- FAA / FCC Obstruction Clearance
  - TOWAIR Study

http://wireless2.fcc.gov/UlsApp/AsrSearch/towairSearch.jsp



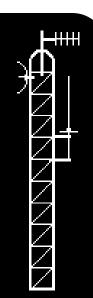
## Practicality & Reasonableness

- Does it Pass the Common Sense Test
- Tower Steel is usually only 10% of the total project cost. Is it worth it?
- What are the risks of constructing?
- What are the risks of not constructing?



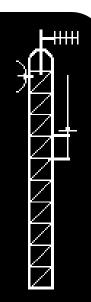
#### KB2KFV Example

Establish the Goal



- Discuss Goal with the Village Zoning Board
- Review Proposed Installation
- Present Findings to Zoning Board

The actual tower erection needs to be well planned.

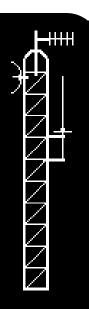


- Proper Installation Equipment
- Proper Personal Protective Equipment
- Safety is key element number one

## Installation Equipment

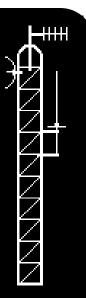


- Gin Pole
- Cable / Rope
- Specific Tools to meet OEM Specs



## Safety Equipment

- Hard Hat, Eye and Ear Protection, Gloves, Boots, Clothing selection
- Climbing Belt(s), Harnesses & Lanyards
- Positioning and Rescue Equipment
- Contact information / Emergency Numbers



### Safety Plan

- Safety Meetings
- Emergency Response
- Trained Personnel
- Proper Lockout / Tag-Out Procedure

