

AFS 1100 Ballast Foundation and Self-Raising Monopole For Crown Castle/AT&T Peshastin, WA Mountain Top



OVERVIEW

ARE Telecom was contracted by Crown Castle to design, manufacture and install our AFS ballasted foundation system and tilt-up/self-raising monopole to support communication AT&T antennas on a remote mountain top in the Wenatchee Mountains.

SOLUTION

ARE designed the pole and matched it with our AFS 1100 foundation system. The site location was difficult to access and relied on a rarely used US Forestry road. All components were transported by small truck or telehandler. Although bad weather made the mountain pass and path icy and overall installation difficult, foundation and pole were off-loaded and installed within 3 days. The self-raising pole made it possible for the antennas to be installed on the ground and did not require additional equipment or dangerous climbing. This versatile quick install system sits above ground and has a small footprint of 15'. It is certified to TIA 222 rev G and used for both permanent or temporary installations.

CHALLENGES

- **Limited space and access.**
- **Significant logistics planning due to remote site in an isolated mountain range.**
- **Quickly deployed over 3 days under very difficult mountain top conditions**

Project benchmarks:

- Crew flexibility and equipment availability allowing for installation under challenging conditions
- Mobilize all equipment, tools and ballast on remote site
- Antennas installed on ground level eliminating need to climb
- Install 50 ton AFS 1100 foundation and pole within very tight footprint and without use of crane

PROJECT RESOURCES

3 Man Crew, 3 Days, 1 Skid Steer, 1 Telehandler



Pole and foundation off-loaded at the base of the mountain



Site leveled on mountain top & preassembly of the base



Foundation with arms



Foundation side wall assembly



Foundation filled with ballast



Pole assembly



Self-raising hydraulic pole



Antenna installation



AFS 1100 foundation & 60' self-raising pole installed