Improving SLAC’s AT&T cell phone coverage

Les Cottrell & Jim Healy

Presented at the POW meeting

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cell site at SLAC
- Install permanent macro
- Two prong apprroach
Quickly improve coverage
- Install a temporary tower to

AT&T Macro Cell Site
Possible COW

- Trailer with outriggers
- Cover 3 directions
- Needs 200A 208V 2P
- 4 antennae/direction 30°
- Can accept 480V, 100A
- Size w clearances:
  - 30' x 40'
  - COW GVR = 16,000 lbs
  - Trailer 12,500-14,000 lbs
  - Trailer 91" x 316.25"
Reviewed Possible Temporary Sites
Estimated commissioning
Estimated installation schedule
Approval for installation
Types of temporary towers
Temporary cell site location

What has changed
Types of temporary towers

- Initial choice Cell on Wheels (COW)
- Changed to Cell Blocks,
  - less space no guy wires etc (14’x14’ vs 40’x40’) = more choices
Temporary Cell Tower

- No excavation required
- Interlocking blocks bolted together 15kips each
- Cell Blocks: Pre-cast foundation of 7' x 7' x 2' (deep)
- Tower Foundation
Chosen Temporary cell tower site

- Re-alignment of road striping and addition of stop signs
- Removal of about 5 parking slots