



Austin Energy
Infrastructure Usage Application for Wireless
Telecommunications

Austin Energy will not approve any application where the structural
usage is over 100%

Applicant Information Austin Energy

Company Name:
Contact Name / Title:
Telephone No.:
Email Address:
Austin Energy Electric Account Number:
Application Type:

Description and Address of Austin Energy Infrastructure:

Applicant's Proposed Use of Austin Energy Infrastructure

Describe purpose, technology, size and type of antenna:
Antenna Specifications (make and model):
Antenna azimuth and mounting height:
Distance from cellular equipment to energized conductor:
Licensed Antenna Frequencies:
Generator on site: Generator Size:
Electric Power Requirement:
Ground Space Requirement:
Shelter Size:
Proposed Construction Date and Duration:
Itemized list of improvements or modifications proposed for the site:

Additional Information Required with Application (all fees must be delivered to Austin
Energy, Attn: Sofia Chea, 721 Barton Springs Road, Austin, TX 78704.)

- Provide at least two (2) recent, high-resolution photos of the proposed site
Provide precise site location in the form of a Google Earth Pin (.kmz file)
Provide proposed site plan and antenna pattern
Provide application fee check made out to Austin Energy
Structural analysis (See next page for analysis requirements)
*Please indicate risk category used in structural analysis:

Applicant's Signature: Date:
Applicant's Title:



Austin Energy Structural Analysis Requirements

Loss of Austin Energy's high voltage infrastructure has the potential to cause mass loss of power. Therefore, the risk category used in the structural analysis shall be 3. If your site is not located near any high voltage infrastructure, you may request an exemption from this requirement, downgrading the risk category to 2 (if granted).

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- For structures without Austin Energy wires attached:
 - Structural analysis utilizing software of choice; provide electronic copy of all structural analysis reports.
 - For structures with Austin Energy wires attached:
 - Structural analysis utilizing most recent production version of PLS-POLE or PLS-TOWER and PLSLITE; provide backup file (.bak) of PLS-LITE model and electronic copy of short report from PLSLITE.
 - Structural model guidelines (PLS-POLE or PLS-TOWER): Pole or Tower to be modeled with cell attachments as equipment (.eqp) with the appropriate weight and ice/wind area.
 - Loading guidelines (PLS-LITE): Structural model built using PLS-POLE or PLS-TOWER should be inserted into PLS-LITE where the shield wires and conductors can be attached with correct span length, azimuth, elevation change, max design tension, ruling span, etc.
 - Required load cases:
 - Strength:
 - Overload factors for strength cases: 1.5x Vertical, 2.5x Transverse Wind, 1.65x Tension
 - NESC Heavy – 0.5" radial ice, 4psf wind, 0deg F
 - NESC Light – 0" radial ice, 9psf wind, 30deg F
 - Serviceability:
 - No overload factors for serviceability case
 - Extreme Wind – 0" radial ice, 90mph / 20.736psf wind, 60deg F
 - Concurrent Ice & Wind – 0.5" radial ice, 30mph / 2.304psf wind, 15deg F
- NOTE: Austin Energy will be happy to provide any PLS files (libraries, criteria files, etc.) that will aid in the modeling of structures.