Austin Energy
Infrastructure Usage Application for Wireless Telecommunications

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

Applicant Information
Company Name: _____
Contact Name / Title: _____
Telephone No.: _____
Email Address:_____
Austin Energy Electric Account Number: _____
Application Type: Please Select _____

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: No 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: Accounts Receivable, 4815 Mueller Blvd., Austin, TX 78723.)

- 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:** Select

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.