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Jefferson County, Colorado  
Planning & Zoning Division

# TELECOMMUNICATIONS PERMIT APPLICATION

Permit #  TP

1. This form is only an application until validated by Jefferson County staff.
2. **Fees are on-line at our web site** or call 303-271-8700. Make checks payable to Jefferson County Treasurer. The applicant will also be required to reimburse the County for any costs of outside expert review of technical submissions, regardless of whether escrow is required or the amount of funds required to be submitted in escrow.

**Address of site**  
 Street  City  State  ZIP

**Legal Description**

**Property Owner**  **Phone**

**Owner's Address**  
 Street  City  State  ZIP

**Applicant**  **Phone**  **Fax**

**Applicant's Address**  
 Street  City  State  ZIP

## Please read and check

- I hereby acknowledge that I have read this application and state that the above is correct, and agree not to start this project until this application is approved, and shall comply with applicable federal laws and regulations, laws and regulations of the State of Colorado, and the Zoning Regulations and Building code of Jefferson County. Any violation of the above noted terms will cause immediate revocation of this permit.
- I hereby acknowledge that new structure may not be erected, placed upon or extended over any easement unless approved in writing by the agency or agencies having jurisdiction over such easement.
- I hereby acknowledge that I am aware that this permit does not include a legal parcel review as it pertains to Senate Bill 35 and subdivision of land or a review of access to my site. I am aware that legal parcel review and/or a review of access to my site may be required for other permits or processes on this site in the future. Approval of this application does not guarantee approval of any future permits or processes on the property.

**Applicant's Signature**

**Date**  **Phone**

**Print Applicant's Name**

**Email**

## Staff use only

**Zone District**  **Map #**  **Minimum setback from residential land use (if applicable)**

**Plat Book**  **Page**  **Minimum setback from non-residential land use (if applicable)**

**ODP Book**  **Page**  **Height of antenna support structure and attached antennas**

Scope of Work Letter <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Erosion Control and Revegetation Plan <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Proof of Ownership <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Performance Guarantee <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Proof of Access <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Inventory of Existing Sites <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Site Plan <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	RF Report / Categorical Exclusion <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Engineer's Structural Report <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Escrow Funds <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Antenna Report <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Floodplain <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Highest Design Standard Compliance <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Corner Lot <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Landscape / Visual Mitigation Plan <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Drainage Easement <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

**Jefferson County Staff Approval**  
 Name  Date  Fee  Receipt #

## Jefferson County Telecommunications Permit Application Requirements

### Telecommunications Facility

All telecommunications permit applications must be accompanied by:

1. A description of any proposed telecommunications facility including elevations generally depicting all proposed antennas, platforms, finish materials and colors, accessory equipment and height above grade.
2. Proof of Ownership
3. Proof of Access
4. A site plan drawn to scale showing where the structure is to be located in relation to other structures and property lines and shows the relative shape, size, and location of all existing and proposed transmission structures, guy wire anchors, warning signs, fencing, and access restrictions.
5. A report by a licensed professional engineer identifying the general structural capacity of the proposed facility and demonstrating compliance with applicable structural standards .
6. The number, type and size of antenna that can be accommodated.
7. A report that includes the following, if determined by staff to be applicable:
  - a. A description of how the proposed PWS facility complies with "Highest Design Standards". Photo simulations and elevations should be provided as necessary to demonstrate compliance.
  - b. A landscaping and or / visual mitigation plan (to scale) acceptable to the Zoning Administrator, detailing how screening from the public view will be accomplished, including cross sectional views as appropriate
  - c. An erosion control and revegetation plan

d. A performance guarantee, in an amount acceptable to the Planning and Zoning Division and in a form acceptable to the County Attorney's Office, to ensure landscaping, screening, erosion and revegetation plans are completed as approved .

8. An inventory of Existing Sites. Each applicant shall provide a narrative and map description of the applicant's / provider's existing and currently proposed telecommunications facilities within the County. This shall include the physical location and general description of the site (e.g. 50' monopole camouflaged as a pine tree at 123 Main St.). This provision does not apply to the granting of telecommunications permits for amateur radio facilities.
9. Calculations, maps or such other information as is necessary to demonstrate that the cumulative effect of proposed sources of NIER when added to existing NIER sources will comply with adopted county standards. Any facility that will operate at less than 1000 watts of radio frequency effective radiated power per antenna or can demonstrate that they are categorically excluded from having to determine compliance with RF exposure standards by the FCC is exempt from this requirement unless its NIER emission, when added to existing ambient NIER sources, will exceed the levels set forth in the above standard. (Refer to the FCC "Optional Checklist for Local Government To Determine Whether a Facility is Categorically Excluded" below) This provision does not apply to the granting of telecommunications permits for amateur radio facilities.
10. The County may require the applicant for a telecommunication tower or other telecommunication facility to submit funds in escrow to pay for expert review of technical submissions by the applicant in accordance with Section 7 of the Zoning Resolution. The applicant shall be required to reimburse the County for all costs of expert review, regardless of whether escrow was required or the amount of funds required to be submitted in escrow. This provision shall not apply to the granting of telecommunications permits for amateur radio facilities.

### Optional Checklist for Local Government to Determine Whether a Facility is Categorically Excluded

**Purpose:** The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of RF exposure guidelines. Operators of those facilities are exempt from routinely having to determine their compliance. These facilities are termed "categorically excluded." Section 1.1307(b)(1) of the Commission's rules defines those categorically excluded facilities.

This checklist will assist state and local government agencies in identifying those wireless facilities that are categorically excluded, and thus are highly unlikely to cause exposure in excess of the FCC's guidelines. Provision of the information identified on this checklist may also assist FCC staff in evaluating any inquiry regarding a facility's compliance with the RF exposure guidelines.

#### Background Information

1. Facility Operator's Legal Name <input style="width: 95%;" type="text"/>	2. Facility Operator's Mailing Address <input style="width: 95%;" type="text"/>		
3. Facility Operator's Contact Name/Title <input style="width: 95%;" type="text"/>	4. Facility Operator's Office Telephone <input style="width: 95%;" type="text"/>	5. Facility Operator's Fax <input style="width: 95%;" type="text"/>	
6. Facility Name <input style="width: 95%;" type="text"/>	7. Facility Address <input style="width: 95%;" type="text"/>		
8. Facility City/Community <input style="width: 95%;" type="text"/>	9. Facility State and Zip Code <input style="width: 95%;" type="text"/>	10. Latitude <input style="width: 95%;" type="text"/>	11. Longitude <input style="width: 95%;" type="text"/>

#### Evaluation Of Categorical Exclusion

12. Licensed Radio Service <i>(see table on page 3)</i> <input style="width: 95%;" type="text"/>	13 Structure Type <i>(free-standing or building/roof-mounted)</i> <input style="width: 95%;" type="text"/>
14. Antenna Type <i>[omnidirectional or directional (includes sectored)]</i> <input style="width: 95%;" type="text"/>	15. Height above ground of the lowest point of the antenna <i>(in meters)</i> <input style="width: 95%;" type="text"/>

16. Check if all of the following are true:

(a) This facility will be operated in the Multipoint Distribution Service, Paging and Radiotelephone Service, Cellular Radiotelephone Service, Narrowband or Broadband Personal Communications Service, Private Land Mobile Radio Services Paging Operations, Private Land Mobile Radio Service Specialized Mobile Radio, Local Multipoint Distribution Service, or service regulated under Part 74, Subpart I *(see question 12)*.

(b) This facility will not be mounted on a building (see question 13).

(c) The lowest point of the antenna will be at least 10 meters above the ground *(see question 15)*.

*If box 16 is checked, this facility is categorically excluded and is unlikely to cause exposure in excess of the FCC's guidelines. The remainder of the checklist need not be completed. If box 16 is not checked, continue to question 17.*

**Optional Checklist for Local Government to Determine Whether a Facility is Categorically Excluded (Continued)**

17. Enter the power threshold for categorical exclusion for this service from the table below in watts ERP or EIRP\* (note:  $EIRP = (1.64) \times ERP$ )

18. Enter the total number of channels if this will be an omnidirectional antenna, or the maximum number of channels in any sector if this will be a sector antenna

19. Enter the ERP or EIRP per channel (using the same units as in question 17)

20. Multiply answer 18 by answer 19

21. Is the answer to question 20 less than or equal to the value from question 17  Yes  No

If the answer to question 21 is **YES**, this facility is categorically excluded. It is unlikely to cause exposure in excess of the FCC's guidelines.

If the answer to question 21 is **NO**, this facility is not categorically excluded. Further investigation may be appropriate to verify whether the facility may cause exposure in excess of the FCC's guidelines.

\*"ERP" means "effective radiated power" and "EIRP" means "effective isotropic radiated power"

**Transmitters, Facilities and Operations Subject to Routine Environmental Evaluation Table**

Service (Title 47 Cfr Rule Part)	Evaluation Required If:
Experimental Radio Services (part 5)	power > 100 W ERP (164 W EIRP)
Multipoint Distribution Service (subpart K of part 21)	<b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> power > 1640 W EIRP <b>building-mounted antennas:</b> power > 1640 W EIRP
Paging and Radiotelephone Service (subpart E of part 22)	<b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> power > 1000 W ERP (1640 W EIRP) <b>building-mounted antennas:</b> power > 1000 W ERP (1640 W EIRP)
Cellular Radiotelephone Service (subpart H of part 22)	<b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> total power of all channels > 1000 W ERP (1640 W EIRP) <b>building-mounted antennas:</b> total power of all channels > 1000 W ERP (1640 W EIRP)
Personal Communications Services (part 24)	(1) Narrowband PCS (subpart D): <b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> total power of all channels > 1000 W ERP (1640 W EIRP) building-mounted antennas: total power of all channels > 1000 W ERP (1640 W EIRP)  (2) Broadband PCS (subpart E): <b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> total power of all channels > 2000 W ERP (3280 W EIRP) building-mounted antennas: total power of all channels > 2000 W ERP (3280 W EIRP)
Satellite Communications (part 25)	all included
General Wireless Communications Service (part 26)	total power of all channels > 1640 W EIRP
Wireless Communications Service (part 27)	total power of all channels > 1640 W EIRP
Radio Broadcast Services (part 73)	all included
Experimental, auxiliary, and special broadcast and other program distributional services (part 74)	subparts A, G, L: power > 100 W ERP, subpart I: <b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> power > 1640 W EIRP <b>building-mounted antennas:</b> power > 1640 W EIRP
Stations in the Maritime Services (part 80)	ship earth stations only
Private Land Mobile Radio Services Paging Operations (part 90)	<b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> power > 1000 W ERP (1640 W EIRP) <b>building-mounted antennas:</b> power > 1000 W ERP (1640 W EIRP)
Private Land Mobile Radio Services Specialized Mobile Radio (part 90)	<b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> total power of all channels > 1000 W ERP (1640 W EIRP) <b>building-mounted antennas:</b> total power of all channels > 1000 W ERP (1640 W EIRP)
Amateur Radio Service (part 97)	transmitter output power > levels specified in § 97.13(c)(1) of this chapter
Local Multipoint Distribution Service (subpart L of part 101)	<b>non-building-mounted antennas:</b> height above ground level to lowest point of antenna < 10 m <b>and</b> power > 1640 W EIRP <b>building-mounted antennas:</b> power > 1640 W EIRP  LMDS licensees are required to attach a label to subscriber transceiver antennas that: (1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and (2) references the applicable FCC-adopted limits for radiofrequency exposure specified in § 1.1310 of this chapter.