

MODEL



Small Wireless Facilities Model Design Guidelines

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This model was produced in coordination with:



DISCLAIMER

Any model document provided by the League of Oregon Cities (LOC) is intended to be used as a starting point in an individual city's development of its own documents. Each city is unique, and any adopted document or policy should be individually tailored to meet a city's unique needs. Furthermore, this model is not intended to be a substitute for legal advice. Cities should consult with their city attorney before adopting any small wireless facility policies to ensure that they comply with all aspects of federal, state, and local law.

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Foreword

Background

On January 31, 2017, Federal Communications Commission (“FCC”) Chairman Ajit Pai established a Broadband Deployment Advisory Committee (“BDAC”), which he tasked with making recommendations to the FCC on ways to accelerate the deployment of broadband by reducing or removing regulatory barriers to infrastructure investment. On September 27, 2018, the FCC released a Declaratory Ruling and Third Report and Order ([FCC 18-133](#), referred throughout the document as “Small Cell Order” or “FCC Order”) that significantly limits local authority over small wireless infrastructure deployment and fees for use of the rights-of-way (ROW). The FCC Order took effect January 14, 2019. However, the requirements regarding aesthetics did not take effect until April 15, 2019. Under the FCC Order aesthetic or design standards must be: (1) reasonable; (2) no more burdensome than those applied to other types of infrastructure deployments; (3) objective; and (4) published in advance. The FCC Order also defines the size limitations for small wireless facilities (allowing antennas of up to three (3) cubic feet each, with additional equipment not to exceed 28 cubic feet), and specifies that such facilities may not result in human exposure to radiofrequency radiation in excess of applicable standards in the FCC’s rules (federal law preempts local regulation of Radio Frequency (“RF”) emissions). “Small wireless facilities” are sometimes also called “small cells.”

LOC Model Small Wireless Facilities Design Standard

In coordination with many cities,¹ representatives from Verizon, AT&T, T-Mobile, and the LOC met from January 2019 to May 2020 to discuss and craft a model code and this model design standards relating to small wireless facilities while there is pending litigation² on the FCC Order. The model code and model design standards are intended to be enacted at the same time.

There is no single design standard that will work for every jurisdiction. As such, the LOC’s model design standard is intended as a roadmap to assist local governments in adopting their own design standard. While example language is included in some sections, the LOC does not intend to suggest these examples could work for every jurisdiction. In some instances, the local government may need to issue a deviation to the design standards when it would be technically infeasible for the applicant to comply. The deviation process is provided in Section I of these model standards and is intended to occur within the “shot clock”³ – the time frame in which the state or local government should act on a request for authorization to place, construct, or modify personal wireless service facilities, as defined by the FCC. However, to the extent that the local government cannot reasonably act on the application within the shot clock, the parties are encouraged to seek a tolling agreement to allow the applicant to vet reasonable design alternatives and the local government to complete its review. Local governments cannot require a tolling agreement as a condition of a deviation.

¹ See “Acknowledgments” section for full list of participants.

² In October 2018, the LOC in coordination with other municipalities and municipal leagues filed suit against the FCC in the United States Court of Appeals for the Ninth Circuit. As of December 2023, this case is ongoing and under advisement with the Ninth Circuit Court of Appeals.

³ See Appendix A

The LOC also recognizes there are many ways to structure a design standard. The appropriate structure will vary by jurisdiction. For purposes of this model, the LOC opted to approach designs by type of pole and deployment. The model is intended to provide a general framework and thus is drafted as an outline of provisions jurisdictions may want to include in their final design standard. In many cases, example language is provided to help illustrate the issues to be addressed. However, the intent is to allow each jurisdiction to draft the substantive provisions that best reflect local needs and interests. The LOC recommends that jurisdictions that own poles or other structures in the ROW establish a clear design standard. The circumstances of each municipality may, and likely will, require modifications to the framework and/or example language of this model design standard.

Additional Considerations

The LOC model design standards only apply to small wireless facilities. Municipalities should review their existing ordinances, standards, and policies to determine if this framework is appropriate. Municipalities may want to consider whether it would be preferable to adopt a utility-neutral standard covering all utilities and communications providers, which would provide one set of “rules” for the design of the public ROW. Differences in policy choices and existing standards, among other things, may impact the decision on how to proceed. It is recommended that cities consult their attorney, ROW specialists, engineers, master plans, comprehensive plans, goals and/or wireless providers before final adoption of standards. Cities may choose to adopt design standards administratively or in their code.

Understanding the Organization of the Model Design Standards

As stated above, the model is best described as an outline or roadmap to assist municipalities in drafting the appropriate standards for their community. The model includes example language to illustrate the intent of the section. The example language, or a variation thereof, may be appropriate for final adoption in some jurisdictions.

Finally, there may be additional notes or issues for consideration within the subsections of the model, which are [bracketed] and in ALL CAPS. Again, these notes are intended as guidance for municipal drafters, not for adoption as a final ordinance.

Small Wireless Facility Design Standards

[GIVEN THAT THE TECHNICAL NEEDS FOR EACH OPERATOR MAY VARY, JURISDICTIONS ARE ENCOURAGED TO ADOPT DESIGN STANDARDS BY CITY COUNCIL RESOLUTION AND/OR ADMINISTRATIVELY BY THE CITY MANAGER OR OTHER OFFICIAL. THIS WAY, CITIES WOULD BE ABLE TO REACT QUICKLY AND AMEND THE STANDARDS IN RESPONSE TO CHANGES IN LAW AND TECHNOLOGY. CITIES SHOULD NOTE THAT THIS NIMBLER APPROACH IS POSSIBLE ONLY IF THE REGULATIONS FOR SMALL WIRELESS FACILITIES IN THE PUBLIC RIGHTS-OF-WAY ARE LOCATED OUTSIDE OF THE LAND DEVELOPMENT CODE.]

A. Definitions

“**Antenna**” means the same as defined in 47 C.F.R. § 1.6002(b), as may be amended or superseded. The term includes an apparatus designed for the purpose of emitting radio frequencies (“RF”) to be operated or operating from a fixed location pursuant to Federal Communications Commission (“FCC”) authorization, for the provision of personal wireless service and any commingled information services. For purposes of this definition, the term antenna does not include an unintentional radiator, mobile station, or device authorized under [47 C.F.R. Part 15](#).

“**Antenna Equipment**” means the same as defined 47 C.F.R. § 1.6002(c), as may be amended or superseded, which defines the term to mean equipment, switches, wiring, cabling, power sources, shelters or cabinets associated with an antenna, located at the same fixed location as the antenna, and when collocated on a structure, is mounted or installed at the same time as such antenna.

“**Antenna Facility**” means the same as defined in 47 C.F.R. § 1.6002(d), as may be amended or superseded, which defines the term to mean an antenna and associated antenna equipment.

“**Applicable codes**” means uniform building, fire, safety, electrical, plumbing, or mechanical codes adopted by a recognized national code organization or state or local amendments to those codes that are of general application and consistent with state and federal law.

“**Applicant**” means any person who submits an application as or on behalf of a wireless provider.

“**Application**” means requests submitted by an applicant (i) for permission to collocate small wireless facilities; or (ii) to approve the installation, modification, or replacement of a structure on which to collocate a small wireless facility in the rights-of-way, where required.

“**Collocate**” means the same as defined in 47 C.F.R. § 1.6002(g), as may be amended or superseded, which defines that term to mean (1) mounting or installing an antenna facility on a preexisting structure, and/or (2) modifying a structure for the purpose of mounting or installing an antenna facility on that structure. “Collocation” has a corresponding meaning.

“**Day**” means calendar day. For purposes of the FCC shot clock, a terminal day that falls on a holiday or weekend shall be deemed to be the next immediate business day.

“**Historic District**” means a group of buildings, properties, or sites that are either: (1) listed in the National Register of Historic Places or formally determined eligible for listing by the Keeper of the National Register in accordance with Section VI.D.1a.i-v of the Nationwide Programmatic Agreement codified at [47 C.F.R. Part 1, Appendix C](#); or, (2) a locally designated historic district as of the effective date of this [Chapter/Section] or in a locally designated historic district existing when an application is submitted. [NOTE: THIS IS NOT MEANT TO RETROACTIVELY AFFECT SMALL WIRELESS FACILITIES (“SWF”) ALREADY IN PLACE WHEN A NEW DISTRICT IS CREATED].

“**Person**” means an individual, corporation, limited liability company, partnership, association, trust, or other entity or organization, including the City.

“**Pole**” means a type of structure in the rights-of-way that is or may be used in whole or in part by or for wireline communications, electric distribution, lighting, traffic control, signage, or similar function, or for collocation of small wireless facilities — provided, such term does not include a tower, building or electric transmission structures.

“**Rights-of-Way**” or “**ROW**” means [INSERT A CONSISTENT DEFINITION ACROSS OTHER CODES. Example: “Right-of-way,” “rights-of-way,” “public right-of-way,” or “ROW” means and includes, but is not limited to, the space in, upon, above, along, across, over or under the public streets, roads, highways, lanes, courts, ways, alleys, boulevards, bridges, trails, paths, sidewalks, bicycle lanes, public utility easements and all other public ways or areas, including the subsurface under and air space over these areas, but does not include parks, parkland, or other City property not generally open to the public for travel.]

“**Small wireless facility**” (“SWF”) means a facility that meets each of the following conditions per 47 C.F.R § 1.6002(l), as may be amended or superseded:

1. The proposed facilities meet one of the following height parameters:
 - a. are mounted on structures 50 feet or less in height including their antennas as defined in 47 C.F.R. Section 1.1320(d), or
 - b. are mounted on structures no more than 10 percent taller than other adjacent structures, or
 - c. do not extend existing structures on which they are located to a height of more than 50 feet or by more than 10 percent, whichever is greater.
2. Each antenna or antenna enclosure shall not exceed three cubic feet in volume.
3. The total volume of installed equipment external to the pole (including, but not limited to cabinets, vaults, boxes) shall not exceed twenty-eight (28) cubic feet. This maximum applies to all equipment installed at the time of original application and includes any equipment to be installed at a future date. Antennas and antenna

enclosures are excluded. If equipment exceeds this maximum, the installation will be redefined as a Macro site installation and all the associated standards and rates for Macro installations will be applied.

4. The facilities do not result in human exposure to radio frequency radiation in excess of the applicable safety standards specified in the FCC's Rules and Regulations [47 C.F.R. section 1.1307(b)].

“**Structure**” means the same as provided in 47 C.F.R. § 1.6002(m), as may be superseded or amended, which defines the term as a pole, tower, base station, or structure, whether or not it has an existing antenna facility, that is used or to be used for the provision of personal wireless service (whether on its own or comingled with other types of service).

[IF THE CITY HAS SPECIFIC CODES OR ORDINANCES WITH DEFINITIONS RELATING TO SWF, CONSIDER INCLUDING DEFINITIONS OR A CROSS REFERENCE HERE.]

B. General Requirements.

1. [NOTE: SECTION (B)(1) IS OPTIONAL. CITIES SHOULD CONSIDER A PREFERENCE THAT IS IN LINE WITH GOALS AND CURRENT STANDARDS ON WHETHER THE CITY PREFERS GROUND-MOUNTED EQUIPMENT OR NOT.] Ground-mounted equipment in the right-of-way is discouraged, unless the applicant can demonstrate that pole-mounted equipment is not technically feasible, or the electric utility requires placement of equipment on the ground (such as an electric meter). If ground-mounted equipment is necessary, then the applicant shall conceal the equipment in a cabinet, in street furniture or with landscaping. [THE TERM “TECHNICALLY FEASIBLE” IS USED BY THE FCC TO DESCRIBE WHEN AESTHETIC STANDARDS MAY BE FOUND TO BE REASONABLE AND DO NOT MATERIALLY INHIBIT THE WIRELESS SERVICE PROVIDER’S ABILITY TO PROVIDE SERVICE.]
2. Replacement poles, new poles and all antenna equipment shall comply with the Americans with Disabilities Act (“ADA”), city construction and sidewalk clearance standards and city, state and federal laws and regulations in order to provide a clear and safe passage within, through and across the right-of-way. Further, the location of any replacement pole, new pole, and/or antenna equipment must comply with applicable traffic requirements, not interfere with utility or safety fixtures (e.g., fire hydrants, traffic control devices), and not adversely affect public health, safety or welfare. [NOTE: ADA REQUIREMENTS, WALKING SPACE, BOLT PATTERNS AND OTHER GENERALLY APPLICABLE CONSTRUCTION STANDARDS ALL NEED TO BE CONSIDERED. THESE CAN BE LIMITING DESIGN FACTORS.]
3. Replacement poles shall be located as near as feasible to the existing pole. The abandoned pole must be removed within _____ days. [NOTE: KEEP CONSISTENT

WITH OTHER CODES OR REQUIREMENTS ABOUT TIMEFRAMES TO REMOVE EQUIPMENT.]

4. Any replacement pole shall substantially conform to the material and design of the existing pole or adjacent poles located within the contiguous ROW unless a different design is requested and approved pursuant to Section I.
5. No advertising, branding or other signage is allowed unless approved by the [City designee] as a concealment technique or as follows:
 - a. Safety signage as required by applicable laws, regulations, and standards; and,
 - b. Identifying information and 24-hour emergency telephone number (such as the telephone number for the operator's network operations center) on wireless equipment in an area that is visible.

[NOTE: IDENTIFYING SIGNAGE IS USUALLY REQUIRED TO BE PLACED ON THE POLE AND READABLE FROM THE GROUND AS A MINIMUM. A CITY MAY ADD ADDITIONAL REQUIREMENTS FOR PLACEMENT. STANDARDS FOR SIGNAGE ARE ADVISORY AND MAY BE SUBJECT TO OVERSIGHT BY MULTIPLE FEDERAL AGENCIES. ALTHOUGH THE FCC'S REGULATIONS ULTIMATELY CONTROL, THE FCC'S REGULATIONS ARE GENERAL AND CAN BE UNCLEAR. AS A BEST PRACTICE, CITIES MAY WISH TO CONSULT THE MORE DETAILED RECOMMENDATIONS BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.]

6. The total volume of multiple antennas on one structure shall not exceed fifteen (15) cubic feet, unless additional antenna volume is requested and approved pursuant to Section I.
7. Antennas and antenna equipment shall not be illuminated except as required by municipal, federal or state authority, provided this shall not preclude deployment on a new or replacement street light.
8. Small wireless facilities may not displace any existing street tree or landscape features unless: (a) such displaced street tree or landscaping is replaced with native and/or drought-resistant trees, plants or other landscape features approved by the City, and (b) the applicant submits and adheres to a landscape maintenance plan or agrees to pay an appropriate in-lieu fee for the maintenance costs.

- C. Small Wireless Facilities Attached to Wooden Poles and Non-Wooden Poles with Overhead Lines.** Small wireless facilities located on wooden utility poles and non-wooden utility poles with overhead lines shall conform to the following design criteria unless a deviation is requested and approved pursuant to Section I:

[IN OREGON, PGE AND PACIFIC CORP ARE THE MOST COMMON UTILITY POLE OWNERS. BOTH HAVE THEIR OWN DESIGN STANDARDS. CITIES SHOULD

WORK WITH POLE OWNERS TO FIND WHAT WORKS BEST FOR THEIR COMMUNITIES AND COMPARE DESIGN STANDARDS.]

1. Proposed antenna and related equipment shall meet:
 - a. The City’s design standards for small wireless facilities;
 - b. The pole owner requirements; and
 - c. National Electric Safety Code (“NESC”) and National Electric Code (“NEC”) standards.
2. The pole at the proposed location may be replaced with a taller pole or extended for the purpose of accommodating a small wireless facility; provided that the replacement or extended pole, together with any small wireless facility, does not exceed fifty (50) feet in height or ten percent (10%) taller than adjacent poles, whichever is greater. The replacement or extended pole height may be increased if required by the pole owner, and such height increase is the minimum necessary to provide sufficient separation and/or clearance from electrical and wireline facilities. Such replacement poles may either match the approximate color and materials of the replaced pole or shall be the standard new pole used by the pole owner in the city.
3. To the extent technically feasible, antennas, equipment enclosures, and all ancillary equipment, boxes, and conduit shall match the approximate material and design of the surface of the pole or existing equipment on which they are attached, or adjacent poles located within the contiguous right-of-way. Near matches may be permitted by the City when options are limited by technical feasibility considerations, such as when high-frequency antennas cannot be placed within an opaque shroud but could be wrapped with a tinted film.
4. Antennas which are mounted on poles shall be mounted as close to the pole as technically feasible and allowed by the pole owner.
5. No antenna shall extend horizontally more than 20 inches past the outermost mounting point (where the mounting hardware connects to the antenna), unless additional antenna space is requested and approved pursuant to Section I. [NOTE: THE 20 INCH STANDARD HERE IS NOT INTENDED TO DICTATE THE SIZE OF THE ANTENNA. RATHER, TO DICTATE THE DISTANCE BETWEEN THE ANTENNA/ANTENNA EQUIPMENT AND THE POLE ITSELF.]
6. Antenna equipment, including but not limited to radios, cables, associated shrouding, disconnect boxes, meters, microwaves, and conduit, which is mounted on poles shall be mounted as close to the pole as technically feasible and allowed by the pole owner.
7. Antenna equipment for small wireless facilities must be attached to the pole, unless otherwise required by the pole owner or permitted to be ground-mounted [pursuant to subsection (B)(1) above]. The equipment must be placed in an enclosure reasonably related in size to the intended purpose of the facility. [IF APPLICABLE, THE APPLICANT IS ENCOURAGED TO PLACE THE EQUIPMENT ENCLOSURE(S)]

BEHIND ANY DECORATIONS, BANNERS OR SIGNS THAT MAY BE ON THE POLE. IN APPROPRIATE CIRCUMSTANCES, CITIES MAY ALSO WISH TO CONSIDER ALLOWING ENCLOSURES THAT INCLUDE REASONABLE SPACE FOR FUTURE ADDITIONAL EQUIPMENT.]

8. All cables and wiring shall be covered by conduits and cabinets to the extent that it is technically feasible, if allowed by pole owner. The number of conduits shall be minimized to the extent technically feasible.

D. Small Wireless Facilities Attached to Non-Wooden Light Poles and Non-Wooden Utility Poles without Overhead Utility Lines. Small wireless facilities attached to existing or replacement non-wooden light poles and non-wooden utility poles without overhead lines shall conform to the following design criteria unless a deviation is requested and approved pursuant to Section I:

[NOTE: JURISDICTION MAY PREFER A OR B OR BOTH. ALSO, NOTE THAT THE MOST COMMON TYPES OF THESE POLES ARE DUAL USE POLES. DUAL USE POLES USUALLY REQUIRE SEPARATION INSIDE THE POLE TO KEEP THE UTILITY EQUIPMENT SEPARATE FROM NEW OR ADDED EQUIPMENT FROM SMALL WIRELESS FACILITIES. HOWEVER, THERE MAY BE STANDALONE SMALL WIRELESS FACILITIES POLES THAT MAY USE OPTION A OR B OR BOTH.]

- a. **External Equipment.** The antennas and associated equipment enclosures must be camouflaged to appear as an integral part of the pole or be mounted as close to the pole as feasible and must be reasonably related in size to the intended purpose of the facility and reasonable expansion for future frequencies and/or technologies, not to exceed the volumetric requirements described in Section A. If the equipment enclosure(s) is mounted on the exterior of the pole, the applicant is encouraged to place the equipment enclosure(s) behind any decorations, banners or signs that may be on the pole. Conduit and fiber must be fully concealed within the pole.
- b. **Concealed Equipment.** All equipment (excluding disconnect switches), conduit and fiber must be fully concealed within the pole. The antennas must be camouflaged to appear as an integral part of the pole or be mounted as close to the pole as feasible. [NOTE: AT THIS TIME, MILLIMETER WAVE ANTENNAS CANNOT BE COVERED OR SHROUDED, THEREFORE THEY MUST BE MOUNTED TO THE OUTSIDE OF THE POLE. POLES MAY HAVE TO BE SIGNIFICANTLY BIGGER IN DIAMETER IF EQUIPMENT IS CONCEALED IN OPTION B (ACCORDING TO POLE MANUFACTURES APPROX. 16-20 INCHES). OPTION A MAY REQUIRE A REPLACEMENT POLE. THE DIAMETER OF THE POLE SHOULD BE SIMILAR TO THE ORIGINAL.]

2. Any replacement pole shall substantially conform to the material and design of the existing pole or adjacent poles located within the contiguous right-of-way unless a different design is requested and approved pursuant to Section I.
3. The height of any replacement pole may not extend more than 10 feet above the height of the existing pole, unless such further height increase is required in writing by the pole owner.

E. New Poles. Small wireless facilities may be attached to new poles that are not replacement poles under sections C or D, installed by the wireless provider, subject to the following criteria:

[NOTE: CITIES SHOULD CHECK WITH OTHER CODES TO MAKE SURE THIS SECTION DOES NOT CONFLICT WITH PRACTICES OF NO NEW POLES OR POLE NEUTRAL PRACTICES, AND REVISE SUCH CODES AS APPROPRIATE.]

1. Antennas, antenna equipment and associated equipment enclosures (excluding disconnect switches), conduit and fiber shall be fully concealed within the structure. If such concealment is not technically feasible, or is incompatible with the pole design, then the antennas and associated equipment enclosures must be camouflaged to appear as an integral part of the structure or mounted as close to the pole as feasible, and must be reasonably related in size to the intended purpose of the facility, not to exceed the volumetric requirements in Section (A)(3). [IN APPROPRIATE CIRCUMSTANCES, CITIES MAY ALSO WISH TO CONSIDER ALLOWING ENCLOSURES THAT INCLUDE REASONABLE SPACE FOR FUTURE ADDITIONAL EQUIPMENT.]
2. To the extent technically feasible, all new poles and pole-mounted antennas and equipment shall substantially conform to the material and design of adjacent poles located within the contiguous right-of-way unless a different design is requested and approved pursuant to Section I.
3. New poles shall be no more than forty (40) feet in height unless additional height is requested and approved pursuant to Section I. [NOTE: THE FCC DEFINITION CONSIDERS A FACILITY A SMALL WIRELESS FACILITY IF IT IS FIFTY (50) FEET OR UNDER. SMALL CELL TECHNOLOGY WORKS BEST WHEN DEPLOYED BETWEEN THIRTY-FIVE TO FORTY (35-45) FEET. AND OTHER THAN DEPLOYMENTS ON UTILITY POLES, MOST WIRELESS PROVIDERS DO NOT NEED FIFTY (50) FEET TO DEPLOY. THEREFORE, IT MAY BE POSSIBLE TO HAVE NEW POLES THAT ARE NOT FIFTY (50) FEET]
4. The city prefers that wireless providers install small wireless facilities on existing or replacement poles instead of installing new poles, unless the wireless provider can document that installation on an existing or replacement pole is not technically feasible or otherwise not possible (due to a lack of owner authorization, safety considerations, or other reasons acceptable to the [City designee]).

[NOTE: CITIES MAY CONSIDER THE SPACING BETWEEN POLES/DEPLOYMENTS. IT IS RECOMMENDED THAT CITIES CONSIDER DISTANCES BETWEEN NEW POLES BY AN INDIVIDUAL PROVIDER RATHER THAN ALL SWF DEPLOYMENTS. SPACING MAY VARY BECAUSE OF BUILDINGS, TOPOGRAPHY, SIZE OF INSTALLATION, ETC. THEREFORE, IT IS RECOMMENDED THAT CITIES WORK WITH PROVIDERS TO SEE WHAT IS FEASIBLE. THE FCC PROVIDES THAT MINIMUM SPACING REQUIREMENTS CANNOT PREVENT A PROVIDER FROM REPLACING ITS PREEXISTING FACILITIES OR COLLOCATING NEW EQUIPMENT ON A STRUCTURE ALREADY IN USE. ULTIMATELY, MINIMUM SPACING REQUIREMENTS WILL BE EVALUATED UNDER THE FCC'S TEST FOR AESTHETIC REGULATIONS – THAT THE REQUIREMENTS MUST BE (1) REASONABLE; (2) NO MORE BURDENSOME THAN THOSE APPLIED TO OTHER INFRASTRUCTURE DEPLOYMENTS; (3) OBJECTIVE, AND (4) PUBLISHED IN ADVANCE.]

- F. Undergrounding Requirements.** [ACCORDING TO THE FCC ORDER, UNDERGROUNDING REQUIREMENTS ARE SUBJECT TO THE SAME CRITERIA AS OTHER AESTHETIC STANDARDS.]

SOME COMPONENTS OF SMALL WIRELESS FACILITIES WILL OFTEN NOT WORK UNDERGROUND. THEREFORE, CITIES UNDERGROUNDING REQUIREMENTS OR UNDERGROUND DISTRICTS MAY CREATE AN EFFECTIVE PROHIBITION. CITIES ARE ENCOURAGED TO REVIEW CURRENT UNDERGROUNDING REQUIREMENTS AND WORK WITH THEIR ATTORNEYS/ROW SPECIALISTS TO MAKE SURE THOSE REQUIREMENTS ARE NOT IN CONFLICT WITH THE FCC ORDER.]

G. Historic District Requirements.

Small wireless facilities or poles to support collocation of small wireless facilities located in Historic Districts shall be designed to have a similar appearance, including material and design elements, if technically feasible, of other poles in the ROW within five hundred (500) feet of the proposed installation. Any such design or concealment measures may not be considered part of the small wireless facility for purpose of the size restrictions in the definition of small wireless facility.

- H. Strand Mounted Equipment.** Strand mounted small wireless facilities are permitted, subject to the following criteria:

1. Each strand mounted antenna shall not exceed 3 cubic feet in volume, unless a deviation is requested and approved pursuant to Section I.
2. Only two (2) strand mounted antennas are permitted between any two existing poles.

3. Strand mounted devices shall be placed as close as possible to the nearest pole and in no event more than five (5) feet from the pole unless a greater distance is required by the pole owner.
4. No strand mounted device will be located in or above the portion of the roadway open to vehicular traffic.
5. Strand mounted devices must be installed with the minimum excess exterior cabling or wires (other than original strand) to meet the technological needs of the facility.

I. Deviation from Design Standards.

1. An applicant may obtain a deviation from these design standards if compliance with the standard: (a) is not technically feasible; (b) impedes the effective operation of the small wireless facility; (c) impairs a desired network performance objective; (d) conflicts with pole owner requirements; or (e) otherwise materially inhibits or limits the provision of wireless service. [NOTE: SINCE DEVIATIONS FROM THE DESIGN STANDARDS MAY LEAD TO QUESTIONS FOR WHY ONE PROVIDER WAS ALLOWED AN EXCEPTION AND ANOTHER WAS NOT, IT IS ADVISED THAT CITIES DOCUMENT REASONS FOR DEVIATIONS.]
2. When requests for deviation are sought under subsections (I)(1)(a)-(e), the request must be narrowly tailored to minimize deviation from the requirements of these design standards, and the [City designee] must find the applicant's proposed design provides similar aesthetic value when compared to strict compliance with these standards.
3. [City designee] may also allow for a deviation from these standards when it finds the applicant's proposed design provides equivalent or superior aesthetic value when compared to strict compliance with these standards.
4. The small wireless facility design approved under this Section I must meet the conditions of 47 C.F.R. Sec. 1.6002(l).
5. [City designee] will review and may approve a request for deviation to the minimum extent required to address the applicant's needs or facilitate a superior design. [NOTE: CITIES MAY RECOMMEND A PRE-MEETING WITH PROVIDERS IF A DEVIATION FROM STANDARDS IS BEING CONSIDERED. HOWEVER, PRE-MEETINGS **MUST BE OPTIONAL**. MANDATORY PRE-MEETINGS, WHETHER WITH STAFF, MEMBERS OF THE COMMUNITY OR NEIGHBORHOOD ASSOCIATIONS, WILL TRIGGER THE SHOT CLOCK TO START.]

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Appendix A – Shot Clock Information

Shot clock provisions that apply to small wireless facilities are codified in 47 C.F.R. Section 1.6003, which is provided below.

§1.6003 Reasonable periods of time to act on siting applications.

(a) *Timely action required.* A siting authority that fails to act on a siting application on or before the shot clock date for the application, as defined in paragraph (e) of this section, is presumed not to have acted within a reasonable period of time.

(b) *Shot clock period.* The shot clock period for a siting application is the sum of—

(1) The number of days of the presumptively reasonable period of time for the pertinent type of application, pursuant to paragraph (c) of this section; plus

(2) The number of days of the tolling period, if any, pursuant to paragraph (d) of this section.

(c) *Presumptively reasonable periods of time—*(1) *Review periods for individual applications.* The following are the presumptively reasonable periods of time for action on applications seeking authorization for deployments in the categories set forth in paragraphs (c)(1)(i) through (iv) of this section:

(i) Review of an application to collocate a Small Wireless Facility using an existing structure: 60 days.

(ii) Review of an application to collocate a facility other than a Small Wireless Facility using an existing structure: 90 days.

(iii) Review of an application to deploy a Small Wireless Facility using a new structure: 90 days.

(iv) Review of an application to deploy a facility other than a Small Wireless Facility using a new structure: 150 days.

(2) *Batching.* (i) If a single application seeks authorization for multiple deployments, all of which fall within a category set forth in either paragraph (c)(1)(i) or (iii) of this section, then the presumptively reasonable period of time for the application as a whole is equal to that for a single deployment within that category.

(ii) If a single application seeks authorization for multiple deployments, the components of which are a mix of deployments that fall within paragraph (c)(1)(i) of this section and deployments that fall within paragraph (c)(1)(iii) of this section, then the presumptively reasonable period of time for the application as a whole is 90 days.

(iii) Siting authorities may not refuse to accept applications under paragraphs (c)(2)(i) and (ii) of this section.

(d) *Tolling period.* Unless a written agreement between the applicant and the siting authority provides otherwise, the tolling period for an application (if any) is as set forth in paragraphs (d)(1) through (3) of this section.

For an initial application to deploy Small Wireless Facilities, if the siting authority notifies the applicant on or before the 10th day after submission that the application is materially incomplete, and clearly and specifically identifies the missing documents or information and the specific rule or regulation creating the obligation to submit such documents or information, the shot clock date calculation shall restart at zero on the date on

which the applicant submits all the documents and information identified by the siting authority to render the application complete.

(1) For all other initial applications, the tolling period shall be the number of days from—

(i) The day after the date when the siting authority notifies the applicant in writing that the application is materially incomplete and clearly and specifically identifies the missing documents or information that the applicant must submit to render the application complete and the specific rule or regulation creating this obligation; until

(ii) The date when the applicant submits all the documents and information identified by the siting authority to render the application complete;

(iii) But only if the notice pursuant to paragraph (d)(2)(i) of this section is effectuated on or before the thirtieth (30th) day after the date when the application was submitted; or

(2) For resubmitted applications following a notice of deficiency, the tolling period shall be the number of days from—

(i) The day after the date when the siting authority notifies the applicant in writing that the applicant's supplemental submission was not sufficient to render the application complete and clearly and specifically identifies the missing documents or information that need to be submitted based on the siting authority's original request under paragraph (d)(1) or (2) of this section; until

(ii) The date when the applicant submits all the documents and information identified by the siting authority to render the application complete;

(iii) But only if the notice pursuant to paragraph (d)(3)(i) of this section is effectuated on or before the 10th day after the date when the applicant makes a supplemental submission in response to the siting authority's request under paragraph (d)(1) or (2) of this section.

(e) *Shot clock date.* The shot clock date for a siting application is determined by counting forward, beginning on the day after the date when the application was submitted, by the number of calendar days of the shot clock period identified pursuant to paragraph (b) of this section and including any pre-application period asserted by the siting authority; *provided*, that if the date calculated in this manner is a “holiday” as defined in §1.4(e)(1) or a legal holiday within the relevant State or local jurisdiction, the shot clock date is the next business day after such date. The term “business day” means any day as defined in §1.4(e)(2) and any day that is not a legal holiday as defined by the State or local jurisdiction.

Appendix B – Code of Federal Regulations (C.F.R.) Cited Throughout Document

47 C.F.R. Section 1.1307

§1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

[Link to an amendment published at 85 FR 18142, Apr. 1, 2020.](#)

[Link to a correction of the above amendment published at 85 FR 33578, June 2, 2020.](#)

(a) Commission actions with respect to the following types of facilities may significantly affect the environment and thus require the preparation of EAs by the applicant (see §§1.1308 and 1.1311) and may require further Commission environmental processing (*see* §§1.1314, 1.1315 and 1.1317):

(1) Facilities that are to be located in an officially designated wilderness area.

(2) Facilities that are to be located in an officially designated wildlife preserve.

(3) Facilities that: (i) May affect listed threatened or endangered species or designated critical habitats; or (ii) are likely to jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats, as determined by the Secretary of the Interior pursuant to the Endangered Species Act of 1973.

NOTE: The list of endangered and threatened species is contained in 50 CFR 17.11, 17.22, 222.23(a) and 227.4. The list of designated critical habitats is contained in 50 CFR 17.95, 17.96 and part 226. To ascertain the status of proposed species and habitats, inquiries may be directed to the Regional Director of the Fish and Wildlife Service, Department of the Interior.

(4) Facilities that may affect districts, sites, buildings, structures or objects, significant in American history, architecture, archeology, engineering or culture, that are listed, or are eligible for listing, in the National Register of Historic Places (*see* 54 U.S.C. 300308; 36 CFR parts 60 and 800), and that are subject to review pursuant to section 1.1320 and have been determined through that review process to have adverse effects on identified historic properties.

(5) Facilities that may affect Indian religious sites.

(6) Facilities to be located in floodplains, if the facilities will not be placed at least one foot above the base flood elevation of the floodplain.

(7) Facilities whose construction will involve significant change in surface features (e.g., wetland fill, deforestation or water diversion). (In the case of wetlands on Federal property, *see* Executive Order 11990.)

(8) Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

In addition to the actions listed in paragraph (a) of this section, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the preparation of an Environmental Assessment (EA) if the particular facility, operation or transmitter would cause human exposure to levels of radiofrequency radiation in excess of the limits in §§1.1310 and 2.1093 of this chapter. Applications to the Commission for construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities must contain a statement confirming compliance with the limits unless the facility, operation, or transmitter is categorically

excluded, as discussed below. Technical information showing the basis for this statement must be submitted to the Commission upon request. Such compliance statements may be omitted from license applications for transceivers subject to the certification requirement in §25.129 of this chapter.

(1) The appropriate exposure limits in §§1.1310 and 2.1093 of this chapter are generally applicable to all facilities, operations and transmitters regulated by the Commission. However, a determination of compliance with the exposure limits in §1.1310 or §2.1093 of this chapter (routine environmental evaluation), and preparation of an EA if the limits are exceeded, is necessary only for facilities, operations and transmitters that fall into the categories listed in table 1, or those specified in paragraph (b)(2) of this section. All other facilities, operations and transmitters are categorically excluded from making such studies or preparing an EA, except as indicated in paragraphs (c) and (d) of this section. For purposes of table 1, *building-mounted antennas* means antennas mounted in or on a building structure that is occupied as a workplace or residence. The term *power* in column 2 of table 1 refers to total operating power of the transmitting operation in question in terms of effective radiated power (ERP), equivalent isotropically radiated power (EIRP), or peak envelope power (PEP), as defined in §2.1 of this chapter. For the case of the Cellular Radiotelephone Service, subpart H of part 22 of this chapter; the Personal Communications Service, part 24 of this chapter and the Specialized Mobile Radio Service, part 90 of this chapter, the phrase *total power of all channels* in column 2 of table 1 means the sum of the ERP or EIRP of all co-located simultaneously operating transmitters owned and operated by a single licensee. When applying the criteria of table 1, radiation in all directions should be considered. For the case of transmitting facilities using sectorized transmitting antennas, applicants and licensees should apply the criteria to all transmitting channels in a given sector, noting that for a highly directional antenna there is relatively little contribution to ERP or EIRP summation for other directions.

TABLE 1—TRANSMITTERS, FACILITIES AND OPERATIONS SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

Service (title 47 CFR rule part)	Evaluation required if:
Experimental Radio Services (part 5)	Power >100 W ERP (164 W EIRP).
Commercial Mobile Radio Services (part 20)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and power >1000 W ERP (1640 W EIRP). Building-mounted antennas: power >1000 W ERP (1640 W EIRP).
	Consumer Signal Booster equipment grantees under the Commercial Mobile Radio Services provisions in part 20 are required to attach a label to Fixed Consumer Booster antennas that:
	(1) Provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transmitting antennas; and
	(2) references the applicable FCC-adopted limits for radiofrequency exposure specified in §1.1310.
Paging and Radiotelephone Service (subpart E of part 22)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and power >1000 W ERP (1640 W EIRP).
	Building-mounted antennas: power >1000 W ERP (1640 W EIRP).
Cellular Radiotelephone Service (subpart H of part 22)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and 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).
Personal Communications Services (part 24)	(1) Narrowband PCS (subpart D):
	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and 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):
	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and 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 Services (part 25)	All included.
	In addition, for NGSO subscriber equipment, 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.
Miscellaneous Wireless Communications Services (part 27 except subpart M)	(1) For the 1390-1392 MHz, 1392-1395 MHz, 1432-1435 MHz, 1670-1675 MHz, and 2385-2390 MHz bands:
	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and 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).
	(2) For the 698-746 MHz, 746-764 MHz, 776-794 MHz, 2305-2320 MHz, and 2345-2360 MHz bands:
	Total power of all channels >1000 W ERP (1640 W EIRP).
Broadband Radio Service and Educational Broadband Service (subpart M of part 27)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and power >1640 W EIRP.
	Building-mounted antennas: power >1640 W EIRP.
	BRS and EBS licensees are required to attach a label to subscriber transceiver or transverter 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.
Upper Microwave Flexible Use Service (part 30)	Non-building-mounted antennas: Height above ground level to lowest point of antenna <10 m and power >1640 W EIRP.
	Antennas are mounted on buildings.
Radio Broadcast Services (part 73)	All included.
Auxiliary and Special Broadcast and Other Program Distributional Services (part 74)	Subparts G and L: Power >100 W ERP.
Stations in the Maritime Services (part 80)	Ship earth stations only.
Private Land Mobile Radio Services Paging Operations (subpart P of part 90)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and power >1000 W ERP (1640 W EIRP).
	Building-mounted antennas: power >1000 W ERP (1640 W EIRP).
Private Land Mobile Radio Services Specialized Mobile Radio (subpart S of part 90)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and 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).
76-81 GHz Radar Service (part 95)	All included.
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) and 24 GHz (subpart G of part 101)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and power >1640 W EIRP.
	Building-mounted antennas: power >1640 W EIRP.
	LMDS and 24 GHz Service 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.
70/80/90 GHz Bands (subpart Q of part 101)	Non-building-mounted antennas: height above ground level to lowest point of antenna <10 m and power >1640 W EIRP.

	Building-mounted antennas: power >1640 W EIRP.
	Licensees are required to attach a label to 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.

(2)(i) Mobile and portable transmitting devices that operate in the Commercial Mobile Radio Services pursuant to part 20 of this chapter; the Cellular Radiotelephone Service pursuant to part 22 of this chapter; the Personal Communications Services (PCS) pursuant to part 24 of this chapter; the Satellite Communications Services pursuant to part 25 of this chapter; the Miscellaneous Wireless Communications Services pursuant to part 27 of this chapter; the Upper Microwave Flexible User Service pursuant to part 30 of this chapter; the Maritime Services (ship earth stations only) pursuant to part 80 of this chapter; the Specialized Mobile Radio Service, the 4.9 GHz Band Service, and the 3650 MHz Wireless Broadband Service pursuant to part 90 of this chapter; the Wireless Medical Telemetry Service (WMTS), the Medical Device Radiocommunication Service (MedRadio), and the 76-81 GHz Band Radar Service pursuant to part 95 of this chapter; and the Citizens Broadband Radio Service pursuant to part 96 of this chapter are subject to routine environmental evaluation for RF exposure prior to equipment authorization or use, as specified in §§2.1091 and 2.1093 of this chapter.

(ii) Unlicensed PCS, unlicensed NII, and millimeter-wave devices are also subject to routine environmental evaluation for RF exposure prior to equipment authorization or use, as specified in §§15.255(g), 15.257(g), 15.319(i), and 15.407(f) of this chapter.

(iii) Portable transmitting equipment for use in the Wireless Medical Telemetry Service (WMTS) is subject to routine environmental evaluation as specified in §§2.1093 and 95.2385 of this chapter.

(iv) Equipment authorized for use in the Medical Device Radiocommunication Service (MedRadio) as a medical implant device or body-worn transmitter (as defined in subpart I of part 95 of this chapter) is subject to routine environmental evaluation for RF exposure prior to equipment authorization, as specified in §§2.1093 and 95.2585 of this chapter by finite difference time domain (FDTD) computational modeling or laboratory measurement techniques. Where a showing is based on computational modeling, the Commission retains the discretion to request that supporting documentation and/or specific absorption rate (SAR) measurement data be submitted.

(v) All other mobile, portable, and unlicensed transmitting devices are categorically excluded from routine environmental evaluation for RF exposure under §§2.1091, 2.1093 of this chapter except as specified in paragraphs (c) and (d) of this section.

(3) In general, when the guidelines specified in §1.1310 are exceeded in an accessible area due to the emissions from multiple fixed transmitters, actions necessary to bring the area into compliance are the shared responsibility of all licensees whose transmitters produce, at the area in question, power density levels that exceed 5% of the power density exposure limit applicable to their particular transmitter or field strength levels that, when squared, exceed 5% of the square of the electric or magnetic field strength limit applicable to their particular transmitter. Owners of transmitter sites are expected to allow applicants and licensees to take reasonable steps to comply with the requirements contained in §1.1307(b) and, where feasible, should encourage co-location of transmitters and common solutions for controlling access to areas where the RF exposure limits contained in §1.1310 might be exceeded.

(i) Applicants for proposed (not otherwise excluded) transmitters, facilities or modifications that would cause non-compliance with the limits specified in §1.1310 at an accessible area previously in compliance must submit an EA if emissions from the applicant's transmitter or facility would result, at the area in question, in a power density that exceeds 5% of the power density exposure limit applicable to that transmitter or facility or in a field strength that, when squared, exceeds 5% of the square of the electric or magnetic field strength limit applicable to that transmitter or facility.

(ii) Renewal applicants whose (not otherwise excluded) transmitters or facilities contribute to the field strength or power density at an accessible area not in compliance with the limits specified in §1.1310 must submit an EA if emissions from the applicant's transmitter or facility results, at the area in question, in a power density that exceeds 5% of the power density exposure limit applicable to that transmitter or facility or in a field strength that, when squared, exceeds 5% of the square of the electric or magnetic field strength limit applicable to that transmitter of facility.

(b) If an interested person alleges that a particular action, otherwise categorically excluded, will have a significant environmental effect, the person shall submit to the Bureau responsible for processing that action a written petition setting forth in detail the reasons justifying or circumstances necessitating environmental consideration in the decision-making process. (*See* §1.1313). The Bureau shall review the petition and consider the environmental concerns that have been raised. If the Bureau determines that the action may have a significant environmental impact, the Bureau will require the applicant to prepare an EA (*see* §§1.1308 and 1.1311), which will serve as the basis for the determination to proceed with or terminate environmental processing.

(c) If the Bureau responsible for processing a particular action, otherwise categorically excluded, determines that the proposal may have a significant environmental impact, the Bureau, on its own motion, shall require the applicant to submit an EA. The Bureau will review and consider the EA as in paragraph (c) of this section.

NOTE TO PARAGRAPH (d): Pending a final determination as to what, if any, permanent measures should be adopted specifically for the protection of migratory birds, the Bureau shall require an Environmental Assessment for an otherwise categorically excluded action involving a new or existing antenna structure, for which an antenna structure registration application (FCC Form 854) is required under part 17 of this chapter, if the proposed antenna structure will be over 450 feet in height above ground level (AGL) and involves either:

1. Construction of a new antenna structure;
2. Modification or replacement of an existing antenna structure involving a substantial increase in size as defined in paragraph I(C)(1)(3) of Appendix B to part 1 of this chapter; or
3. Addition of lighting or adoption of a less preferred lighting style as defined in §17.4(c)(1)(iii) of this chapter. The Bureau shall consider whether to require an EA for other antenna structures subject to §17.4(c) of this chapter in accordance with §17.4(c)(8) of this chapter. An Environmental Assessment required pursuant to this note will be subject to the same procedures that apply to any Environmental Assessment required for a proposed tower or modification of an existing tower for which an antenna structure registration application (FCC Form 854) is required, as set forth in §17.4(c) of this chapter.

(d) No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the regulations contained in this chapter concerning the environmental effects of such emissions. For purposes of this paragraph:

(1) The term *personal wireless service* means commercial mobile services, unlicensed wireless services, and common carrier wireless exchange access services;

(2) The term *personal wireless service facilities* means facilities for the provision of personal wireless services;

(3) The term *unlicensed wireless services* means the offering of telecommunications services using duly authorized devices which do not require individual licenses, but does not mean the provision of direct-to-home satellite services; and

(4) The term *direct-to-home satellite services* means the distribution or broadcasting of programming or services by satellite directly to the subscriber's premises without the use of ground receiving or distribution equipment, except at the subscriber's premises or in the uplink process to the satellite.

[51 FR 15000, Apr. 22, 1986]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §1.1307, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.govinfo.gov.

EFFECTIVE DATE NOTE: At 85 FR 18142, Apr. 1, 2020, §1.1307 was amended by revising paragraph (b). At 85 FR 33578, June 2, 2020, this revision was delayed indefinitely.

47 C.F.R. Section 1.1320

§1.1320 Review of Commission undertakings that may affect historic properties.

(a) *Review of Commission undertakings.* Any Commission undertaking that has the potential to cause effects on historic properties, unless excluded from review pursuant to paragraph (b) of this section, shall be subject to review under section 106 of the National Historic Preservation Act, as amended, 54 U.S.C. 306108, by applying—

(1) The procedures set forth in regulations of the Advisory Council on Historic Preservation, 36 CFR 800.3-800.13, or

(2) If applicable, a program alternative established pursuant to 36 CFR 800.14, including but not limited to the following:

(i) The Nationwide Programmatic Agreement for the Collocation of Wireless Antennas, as amended, Appendix B of this part.

(ii) The Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings, Appendix C of this part.

(iii) The Program Comment to Tailor the Federal Communications Commission's Section 106 Review for Undertakings Involving the Construction of Positive Train Control Wayside Poles and Infrastructure, 79 FR 30861 (May 29, 2014).

(b) *Exclusions.* The following categories of undertakings are excluded from review under this section:

(1) *Projects reviewed by other agencies.* Undertakings for which an agency other than the Commission is the lead Federal agency pursuant to 36 CFR 800.2(a)(2).

(2) *Projects subject to program alternatives.* Undertakings excluded from review under a program alternative established pursuant to 36 CFR 800.14, including those listed in paragraph (a)(2) of this section.

(3) *Replacement utility poles.* Construction of a replacement for an existing structure where all the following criteria are satisfied:

(i) The original structure—

(A) Is a pole that can hold utility, communications, or related transmission lines;

(B) Was not originally erected for the sole or primary purpose of supporting antennas that operate pursuant to the Commission's spectrum license or authorization; and

(C) Is not itself a historic property.

(ii) The replacement pole—

(A) Is located no more than 10 feet away from the original pole, based on the distance between the center point of the replacement pole and the center point of the original pole; *provided* that construction of the replacement pole in place of the original pole entails no new ground disturbance (either laterally or in depth) outside previously disturbed areas, including disturbance associated with temporary support of utility, communications, or related transmission lines. For purposes of this paragraph, “ground disturbance” means any activity that moves, compacts, alters, displaces, or penetrates the ground surface of previously undisturbed soils;

(B) Has a height that does not exceed the height of the original pole by more than 5 feet or 10 percent of the height of the original pole, whichever is greater; and

(C) Has an appearance consistent with the quality and appearance of the original pole.

(4) *Collocations on buildings and other non-tower structures.* The mounting of antennas (including associated equipment such as wiring, cabling, cabinets, or backup power) on buildings or other non-tower structures where the deployment meets the following conditions:

(i) There is an existing antenna on the building or structure;

(ii) One of the following criteria is met:

(A) *Non-Visible Antennas.* The new antenna is not visible from any adjacent streets or surrounding public spaces and is added in the same vicinity as a pre-existing antenna;

(B) *Visible Replacement Antennas.* The new antenna is visible from adjacent streets or surrounding public spaces, provided that

(1) It is a replacement for a pre-existing antenna,

(2) The new antenna will be located in the same vicinity as the pre-existing antenna,

(3) The new antenna will be visible only from adjacent streets and surrounding public spaces that also afford views of the pre-existing antenna,

(4) The new antenna is not more than 3 feet larger in height or width (including all protuberances) than the pre-existing antenna, and

(5) No new equipment cabinets are visible from the adjacent streets or surrounding public spaces; or

(C) *Other Visible Antennas*. The new antenna is visible from adjacent streets or surrounding public spaces, provided that

(1) It is located in the same vicinity as a pre-existing antenna,

(2) The new antenna will be visible only from adjacent streets and surrounding public spaces that also afford views of the pre-existing antenna,

(3) The pre-existing antenna was not deployed pursuant to the exclusion in this paragraph,

(4) The new antenna is not more than three feet larger in height or width (including all protuberances) than the pre-existing antenna, and

(5) No new equipment cabinets are visible from the adjacent streets or surrounding public spaces;

(iii) The new antenna complies with all zoning conditions and historic preservation conditions applicable to existing antennas in the same vicinity that directly mitigate or prevent effects, such as camouflage or concealment requirements;

(iv) The deployment of the new antenna involves no new ground disturbance; and

(v) The deployment would otherwise require the preparation of an Environmental Assessment under 1.1304(a)(4) solely because of the age of the structure.

NOTE 1 TO PARAGRAPH (b)(4): A non-visible new antenna is in the “same vicinity” as a pre-existing antenna if it will be collocated on the same rooftop, façade or other surface. A visible new antenna is in the “same vicinity” as a pre-existing antenna if it is on the same rooftop, façade, or other surface and the center point of the new antenna is within ten feet of the center point of the pre-existing antenna. A deployment causes no new ground disturbance when the depth and width of previous disturbance exceeds the proposed construction depth and width by at least two feet.

(c) *Responsibilities of applicants*. Applicants seeking Commission authorization for construction or modification of towers, collocation of antennas, or other undertakings shall take the steps mandated by, and comply with the requirements set forth in, Appendix C of this part, sections III-X, or any other applicable program alternative.

(d) *Definitions*. For purposes of this section, the following definitions apply:

Antenna means an apparatus designed for the purpose of emitting radiofrequency (RF) radiation, to be operated or operating from a fixed location pursuant to Commission authorization, for the transmission of writing, signs, signals, data, images, pictures, and sounds of all kinds, including the transmitting device and any on-site equipment, switches, wiring, cabling, power sources, shelters or cabinets associated with that antenna and added to a tower, structure, or building as part of the original installation of the antenna. For most services, an antenna will be mounted on or in, and is distinct from, a supporting structure such as a tower, structure or building. However, in the case of AM broadcast stations, the entire tower or group of towers constitutes the antenna for that station. For purposes of this section, the term antenna does not include unintentional radiators, mobile stations, or devices authorized under part 15 of this title.

Applicant means a Commission licensee, permittee, or registration holder, or an applicant or prospective applicant for a wireless or broadcast license, authorization or antenna structure registration, and the duly authorized agents, employees, and contractors of any such person or entity.

Collocation means the mounting or installation of an antenna on an existing tower, building or structure for the purpose of transmitting and/or receiving radio frequency signals for communications purposes, whether or not there is an existing antenna on the structure.

Tower means any structure built for the sole or primary purpose of supporting Commission-licensed or authorized antennas, including the on-site fencing, equipment, switches, wiring, cabling, power sources, shelters, or cabinets associated with that tower but not installed as part of an antenna as defined herein.

Undertaking means a project, activity, or program funded in whole or in part under the direct or indirect jurisdiction of the Commission, including those requiring a Commission permit, license or approval. Maintenance and servicing of towers, antennas, and associated equipment are not deemed to be undertakings subject to review under this section.

[82 FR 58758, Dec. 14, 2017]

47 C.F.R. Section 1.6002

§1.6002 Definitions.

Terms not specifically defined in this section or elsewhere in this subpart have the meanings defined in this part and the Communications Act of 1934, 47 U.S.C. 151 *et seq.* Terms used in this subpart have the following meanings:

(a) *Action* or *to act* on a siting application means a siting authority's grant of a siting application or issuance of a written decision denying a siting application.

(b) *Antenna*, consistent with §1.1320(d), means an apparatus designed for the purpose of emitting radiofrequency (RF) radiation, to be operated or operating from a fixed location pursuant to Commission authorization, for the provision of personal wireless service and any commingled information services. For purposes of this definition, the term antenna does not include an unintentional radiator, mobile station, or device authorized under part 15 of this chapter.

(c) *Antenna equipment*, consistent with §1.1320(d), means equipment, switches, wiring, cabling, power sources, shelters or cabinets associated with an antenna, located at the same fixed location as the antenna, and, when collocated on a structure, is mounted or installed at the same time as such antenna.

(d) *Antenna facility* means an antenna and associated antenna equipment.

(e) *Applicant* means a person or entity that submits a siting application and the agents, employees, and contractors of such person or entity.

(f) *Authorization* means any approval that a siting authority must issue under applicable law prior to the deployment of personal wireless service facilities, including, but not limited to, zoning approval and building permit.

(g) *Collocation*, consistent with §1.1320(d) and the Nationwide Programmatic Agreement (NPA) for the Collocation of Wireless Antennas, appendix B of this part, section I.B, means—

- (1) Mounting or installing an antenna facility on a pre-existing structure; and/or
- (2) Modifying a structure for the purpose of mounting or installing an antenna facility on that structure.

(3) The definition of “collocation” in §1.6100(b)(2) applies to the term as used in that section.

(h) *Deployment* means placement, construction, or modification of a personal wireless service facility.

(i) *Facility* or *personal wireless service facility* means an antenna facility or a structure that is used for the provision of personal wireless service, whether such service is provided on a stand-alone basis or commingled with other wireless communications services.

(j) *Siting application* or *application* means a written submission to a siting authority requesting authorization for the deployment of a personal wireless service facility at a specified location.

(k) *Siting authority* means a State government, local government, or instrumentality of a State government or local government, including any official or organizational unit thereof, whose authorization is necessary prior to the deployment of personal wireless service facilities.

(l) *Small wireless facilities* are facilities that meet each of the following conditions:

(1) The facilities—

(i) Are mounted on structures 50 feet or less in height including their antennas as defined in §1.1320(d);
or

(ii) Are mounted on structures no more than 10 percent taller than other adjacent structures; or

(iii) Do not extend existing structures on which they are located to a height of more than 50 feet or by more than 10 percent, whichever is greater;

(2) Each antenna associated with the deployment, excluding associated antenna equipment (as defined in the definition of antenna in §1.1320(d)), is no more than three cubic feet in volume;

(3) All other wireless equipment associated with the structure, including the wireless equipment associated with the antenna and any pre-existing associated equipment on the structure, is no more than 28 cubic feet in volume;

(4) The facilities do not require antenna structure registration under part 17 of this chapter;

(5) The facilities are not located on Tribal lands, as defined under 36 CFR 800.16(x); and

(6) The facilities do not result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in §1.1307(b).

(m) *Structure* means a pole, tower, base station, or other building, whether or not it has an existing antenna facility, that is used or to be used for the provision of personal wireless service (whether on its own or comingled with other types of services).

[83 FR 51884, Oct. 15, 2018, as amended at 84 FR 59567, Nov. 5, 2019]