

GLOSSARY

Affected Environment — The existing environment to be affected by a proposed action and alternatives.

Ambient Air — Any unconfined portion of the atmosphere: open air, surrounding air.

Analog System — Those electronic systems with a continuously variable signal. This was the first cellular technology and is currently being phased out by most commercial carriers in favor of digital/PCS technologies.

Antenna — A structure or device that is used to radiate or receive electromagnetic waves.

Antennae Farms — An area with a large number of transmitting or receiving antennas for television or radio stations, or for electronic intelligence.

Applicable Authorities — This phrase is used in the text to mean the patchwork of statutes, regulations, Presidential directives, and agency policy and guidance documents that govern WTF applications and their placement on federal and NPS lands. Some pertain only to WTF, which are treated differently than other types of telecommunications facilities, while others apply more broadly, such as right-of-way permits on parkland. Collectively, these applicable authorities dictate when and how applications for the use of these lands as sites for WTF are processed and reviewed by the NPS and others; moreover, these applicable authorities provide the criteria for determining whether to authorize WTF on parkland and under what circumstances. See Chapter 1, Purpose of and Need for Action, for a description of the primary applicable authorities. These applicable authorities, however, do not supplant other laws with which the NPS must comply, such as the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA).

Avian — Pertaining to or characteristic of birds.

Attainment Area — An area considered to have air quality as good as or better than the national ambient air quality standards as defined in the *Clean Air Act*. An area may be an attainment area for one pollutant and a nonattainment area for others.

Balloon Test — A test conducted to assess impacts to viewsheds. The test simulates the height of a proposed structure. Balloons typically are suspended at the proposed location at a height and width approximating that of the proposed structure.

Bandwidth — The transmission capacity of a communications pathway. It is expressed in bits per second, bytes per second or in hertz (cycles per second).

Base Station — The fixed device a mobile radio transceiver talks to, to talk to a person or to get to the landline phone network, public or private.

Best Management Practices — Methods that have been determined to be the most effective, practical means of preventing or reducing pollution or other adverse environmental impacts.

Biological Effect — An effect that occurs when exposure to electromagnetic waves causes some noticeable or detectable physiological change in a biological system.

Biosphere Reserves — Since 1971, the United Nations has designated over 400 "biosphere reserves" in over 95 countries to serve as models of how to protect resources and protected areas while ensuring their non-destructive human use and enjoyment.

Broadband — A data-transmission scheme in which multiple signals share the bandwidth of a medium such as fiber-optic cable. This allows the transmission of voice, data and video signals over a single medium; for example, cable television uses broadband to deliver dozens of channel signals over a single cable.

Broadcast — To transmit information over the airwaves to two or more receiving devices simultaneously. Information can be transmitted over local television or radio stations, satellite systems or wireless data communications networks.

Capital Wireless Integrated Network (CapWIN) — The Capital Wireless Integrated Network (CapWIN) project is a partnership between the States of Maryland and Virginia and the District of Columbia to develop an integrated transportation and criminal justice information wireless network. This system provides the mobile command center in U.S. Park Police Vehicles.

Call Performance Data — Statistics on the number of calls completed in a given area.

Cell Site — The location where a base station is placed.

Cellular — A mobile communications system that achieves enhanced system capacity by dividing up a coverage area into hexagonal regions called cells, then reusing the available spectrum from cell to cell (Frequency Reuse). When a mobile user moves from a cell to an adjacent cell, hand-off must be performed to ensure uninterrupted service.

Cellular Service — A telecommunications service that permits customers to use wireless, mobile telephones to connect, via low-power radio transmitter sites called cell sites, either to the public switched network or to other mobile cellular phones.

Cellular Telecommunications — A Commercial Low Power Mobile Radio Service licensed by the Federal Communication Commission (FCC) in a specific geographical area in which the radio frequency is divided into discrete channels which are assigned in groups to geographic cells within a service area and which are capable of being reused in different cells within the service area.

Cellular Telecommunications Facility — A cellular telecommunications facility consists of the equipment, structures, and infrastructure involved in receiving telecommunications or radio signals from mobile radio communications source and transmitting those signals to a central switching computer which connects the mobile unit with the land-based telephone lines.

Clean Air Act (CAA) (42 USC § 7401-7671g) — The comprehensive federal law that regulates air emissions from area, stationary, and mobile sources. This law authorizes the U.S. Environmental Protection Agency to establish National Ambient Air Quality Standards (NAAQS) to protect public health and the environment.

Co-Location — Sharing of a site (such as a rooftop) or structure (such as a telecommunications tower) by several, sometimes competing, telecommunications operators. Antennas that are collocated must be isolated from each other to keep them from interfering with each other's work.

Commission of Fine Arts — An independent agency Established by Congress in 1910 to advise the federal and District of Columbia governments on matters of art and architecture that affect the appearance of the nation’s capital. The Commission’s primary role is to advise on proposed public building projects, but it also reviews private buildings adjacent to public buildings and grounds of major importance, including Rock Creek Park (under the *Shipstead-Luce Act*) and projects in the Historic District of Georgetown (under the *Old Georgetown Act*).

Controlled Exposure Limits — Also known as occupational exposure limits. As defined by the Federal Communications Commission, applies to human exposure to radiofrequency fields when persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. These exposure limits also apply when exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Contributing Resource — A building, site, structure, or object that adds to the historic significance of a property or district.

Council on Environmental Quality (CEQ) — Established by Congress within the Executive Office of the President with passage of the *National Environmental Policy Act of 1969*. CEQ coordinates federal environmental efforts and works closely with agencies and other White House offices in the development of environmental policies and initiatives.

Criteria Pollutants — The 1970 amendments to the *Clean Air Act* requiring the U.S. Environmental Protection Agency to set National Ambient Air Quality Standards for certain pollutants known to be hazardous to human health. Environmental Protection Agency has identified and set standards to protect human health and welfare for six pollutants: ozone, carbon monoxide, total suspended particulates, sulfur dioxide, lead, and nitrogen oxide. The term, “criteria pollutants” derives from the requirement that Environmental Protection Agency must describe the characteristics and potential health and welfare effects of these pollutants. It is on the basis of these criteria that standards are set or revised.

Cultural Resources — Prehistoric and historic districts, sites, buildings, objects, or any other physical evidence of human activity considered important to a culture, subculture, or community for scientific, traditional, religious, or any other reason.

Cumulative Impacts — Under NEPA regulations, the incremental environmental impact or effect of an action together with the effects of past, present, and reasonably foreseeable future actions, regardless of what agency or person undertakes such other actions (40 CFR Part 1508.7).

dB — A unit used to express power level in decibels relative to one milliwatt.

Decibel (dBa) — In electronics and communications, the decibel (abbreviated as dB, and also as db and DB) is a logarithmic expression of the ratio between two signal power, voltage, or current levels. In acoustics, the decibel is used as an absolute indicator of sound power per unit area. A decibel is one-tenth of a Bel, a seldom-used unit named for Alexander Graham Bell, inventor of the telephone.

Deciduous — Describing trees species that have leaves that fall off every season.

Down Shielded — Positioning lights downward in a manner to reduce glare.

Drive Test — Driving around a wireless coverage area to take signal strength or other measurements.

Electric Field Strength (V/m) — A field vector is a quantity that represents the force on a infinitesimal unit positive test charge at a point divided by that charged. Expressed in volts per minute.

Electromagnetic Fields — Electromagnetic waves at low frequencies.

Electromagnetic Frequencies (EMF) — The transmission of electrical energy through wires, the broadcasting of radio signals and the phenomenon of visible light.

Electromagnetic Radiation — Radiation made up of oscillating electric and magnetic fields and propagated with the speed of light. Includes gamma radiation, X-rays, ultraviolet, visible, and infrared radiation, and radar and radio waves.

Emergency Services — Public services that respond to emergency situations including police, fire, rescue, and EMS.

Enabling Legislation — National Park Service legislation setting forth the legal parameters by which each park may operate.

Endangered Species — “...any species (including subspecies or qualifying distinct population segment) that is in danger of extinction throughout all or a significant portion of its range (Endangered Species Act Section 3(6)).” The lead federal agency for the listing of a species as endangered is responsible for reviewing the status of the species on a five-year basis.

Endangered Species Act (ESA) (16 USC § 1531 et seq.) — An act to provide a means whereby the ecosystems upon which endangered species and threatened species depend may be conserved and to provide a program for the conservation of such endangered species and threatened species.

Enhanced 911 (E-911) — 911 service becomes enhanced 911 emergency reporting service when there is a minimum of two special features added to it. E-911 provides ANI (Automatic Number Identification) and ALI (Automatic Location Information) to the 911 operator.

Environmental Assessment (EA) — An environmental analysis prepared pursuant to the *National Environmental Policy Act* to determine whether a Federal action would significantly affect the environment and thus require a more detailed environmental impact statement (EIS).

Estuarine — Formed, deposited, growing in, inhabiting, or found in the widening channel of a river where it nears the sea or in an area of fresh water and salt (tidal) water mixing.

Executive Order — Official proclamation issued by the President that may set forth policy or direction or establish specific duties in connection with the execution of federal laws and programs.

Exposure — Exposure occurs whenever and wherever a person is subjected to electric, magnetic or electromagnetic fields other than those originating from physiological processes in the body and other natural phenomena.

Fauna — Animals, especially the animals of a particular region or period, considered as a group.

Fiberoptic — A technology that uses specially designed bundles of transparent fibers to transmit light.

Finding of No Significant Impact (FONSI) — A document prepared by a federal agency showing why a proposed action would not have a significant impact on the environment and thus would not require preparation of an Environmental Impact Statement. A FONSI is based on the results of an Environmental Assessment.

Floodplain — The flat or nearly flat land along a river or stream or in a tidal area that is covered by water during a flood.

Flora — Plants considered as a group, especially the plants of a particular country, region, or time.

Frequency — The frequency of an electromagnetic wave is the number of oscillations which passes a fixed point per unit of time. The higher the frequency, the larger the amount of energy.

Guy Wire — A cable or cord to stabilize an antenna mast against movement in the wind.

Habitat Fragmentation — The alteration of a large habitat patch to create isolated or tenuously connected patches of the original habitat that are interspersed with an extensive mosaic of other habitat types.

Hertz (Hz) — A measure of frequency for electromagnetic waves. One cycle per second equals one hertz. Common terms used to describe radio frequency include kilohertz (one thousand cycles per second), megahertz (one million cycles per second), and gigahertz (one billion cycles per second).

Historic District — An area that generally includes within its boundaries a significant concentration of properties linked by architectural style, historical development, or a past event.

In-car Coverage — A level of cellular coverage that ensures 88 dBm to ensure cellular coverage inside of a car. dBm is an abbreviation for the power ratio in decibel (dB) of the measured power referenced to one milliwatt (mW).

Invasive Species — Non-native species disrupting and replacing native species.

Lattice Tower — A guyed or self-supporting three or four sided, open, steel frame structure used to support telecommunications equipment.

Macrocell — A base station providing the main infrastructure for transmitting/receiving in a geographic area. Antennas for macrocells are usually mounted on ground based masts, rooftops and other existing structures above signal obstacles; however, they may be within a building.

Magnetic Field Strength (A/m) — A field vector that is equal to the magnetic flux density divided by the permeability of the medium. Magnetic field strength is expressed in units of amperes per meter.

Maximum Potential Exposure (MPE) — The root-mean-square and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with an acceptable safety factor.

Microcell — A base station used to infill and improve the main network, especially where the volume of calls is high. They are usually deployed later in network rollout. The antennas are small boxes about the size of burglar alarms which are mounted at street level typically on the external walls of existing structures, lampposts and other street furniture. They have a range of a few hundred meters.

Microwaves — High-frequency (1 gigahertz or higher) radio waves used for point-to-point communication.

Migratory — The act of moving from one spatial unit to another.

Migratory Bird Treaty Act of 1918 — This act establishes that all migratory birds and their parts (including eggs, nests, and feathers) are fully protected.

Monopole — A support structure constructed of a single, self-supporting hollow metal tube securely anchored to a foundation.

National Ambient Air Quality Standards (NAAQS) — Standards established by the Environmental Protection Agency that apply for outdoor air throughout the country. The NAAQS represent maximum air pollutant standards that the Environmental Protection Agency set under the *Clean Air Act* for attainment by each state. The standards were to be achieved by 1975, along with state implementation plans to control industrial sources in each state.

National Capital Planning Commission (NCPC) — The National Capital Planning Commission provides overall planning guidance for federal land and buildings in the National Capital Region.

National Capital Region — As defined by the National Capital Planning Commission, the National Capital Region includes the District of Columbia; Prince George’s and Montgomery Counties in Maryland; and Arlington, Fairfax, Loudoun, and Prince William Counties in Virginia, including the cities and towns located within the geographic area bounded by these counties. In reference to National Park Service lands, the National Capital Region includes 8,500 acres of parklands within the District of Columbia and 80,000 acres in Maryland, Virginia, and West Virginia.

National Environmental Policy Act (NEPA) — The Act as amended articulates the federal law that mandates protecting the quality of the human environment. It requires federal agencies to systematically assess the environmental impacts of their proposed activities, programs, and projects including the “no-action” alternative of not pursuing the proposed action. NEPA requires agencies to consider alternative ways of accomplishing their missions in ways which are less damaging to the environment.

National Historic Preservation Act of 1966 (16 USC § 470 et seq.) — An act to establish a program for the preservation of historic properties throughout the nation, and for other purposes, approved October 15, 1966 (Public Law 89-665; 80 STAT.915; 16 USC § 470) as amended by Public Law 91-243, Public Law 93-54, Public Law 94-422, Public Law 94-458, Public Law 96-199, Public Law 96-244, Public Law 96-515, Public Law 98-483, Public Law 99-514, Public Law 100-127, and Public Law 102-575).

National Register of Historic Places (National Register) — A register of districts, sites, buildings, structures, and objects important in American history, architecture, archaeology, and culture, maintained by the Secretary of the Interior under authority of Section 2(b) of the *Historic Sites Act of 1935* and Section 101(a)(1) of the *National Historic Preservation Act of 1966*, as amended.

Neotropical Migrants — Birds that winter in South and Central America and come to temperate regions, such as the continental United States, to breed in the summer.

Nonattainment Area — Area that does not meet one or more of the National Ambient Air Quality Standards for the criteria pollutants designated in the *Clean Air Act*.

Non-Contributing Resource — A building, site, structure, or object that does not add to the historic significance of a property or district.

Non-Ionizing Radiation — A general term for the part of the electromagnetic spectrum which has photon energies too weak to break atomic bonds. Non-ionizing radiation includes ultraviolet radiation, visible light, infrared radiation, radiofrequency, and microwave fields.

Organic Act — Enacted in 1916, this act commits the National Park Service to making informed decisions that perpetuate the conservation and protection of park resources unimpaired for the benefit and enjoyment of future generations.

Personal Communication Service (PCS) — A new generation of wireless-phone technology that introduces a range of features and services surpassing those available in analog- and digital-cellular phone systems. PCS provides the user with an all-in-one wireless phone, paging, messaging, and data service.

Picocell — A wireless base station with extremely low output power designed to cover an extremely small area, such as one floor of an office building.

Power Density (Mw/cm^2) — Power per unit area normal to the direction of propagation, usually expressed in units of watts per square meter or, for convenience, units such as milliwatts per square centimeter or microwatts per square centimeter.

Primary Air Quality Standards — A pollution standard based on human health effects.

Propagation Study — A study that measures existing telecommunications coverage and can identify existing coverage gaps.

Provider — The party providing cellular service, in this case Verizon Wireless.

Public Safety Answering Point (PSAP) — An answering location for 9-1-1 calls originating in a given area. Primary PSAPs receive calls directly from the public, secondary PSAPs take calls transferred or relayed from a primary PSAP.

Radiofrequency (RF) — Any frequency within the electromagnetic spectrum normally associated with radio wave propagation. One of several types of electromagnetic radiation. Electromagnetic radiation consists of waves of electric and magnetic energy moving together through space. In the case of wireless, this is the energy that carries a call through the air.

Repeaters — A device that receives a radio signal, amplifies it, then retransmits it in a new direction. Used to extend the range of a base station's signals, thus expanding coverage without the expense of added base stations. Repeaters are often used within buildings, tunnels, urban canyons, or other difficult terrain.

Scoping — Scoping, as part of NEPA, requires examining a proposed action and its possible effects; establishing the depth of environmental analysis needed; determining analysis procedures, data needed, and task assignments. The public is encouraged to participate and submit comments on proposed projects during the scoping period.

Secondary Air Quality Standards — A pollution standard based on environmental effects.

Spatial Peak — The maximum emissions intensity occurring in a given area. Is used for emissions measurement instead of a spatial average.

Special Park Use — A short-term activity that takes place in a park area and (1) provides a benefit to an individual, group or organization, rather than the public at large; (2) requires written authorization and some degree of management control from the National Park Service in order to protect park resources and the public interest; (3) is not prohibited by law or regulation; and (4) is neither initiated, sponsored, nor conducted by the National Park Service.

Specific Absorption Rate (SAR) — A measure of the amount of radio frequency energy absorbed by the body when using a mobile phone.

T1 — T1 refers to a type of wire or groups of wires capable of carrying voice or data transmissions.

Telecommunications — As defined in the *Telecommunications Act of 1996*, transmission between or among points specified by the user, of information of the user's choosing, without change in the form or content of the information as sent and received. Any transmission, emission, or reception of signs, signals, writings, images, and sounds or intelligence by wire, radio, optical, or other electromagnetic systems.

Telecommunications Act of 1996 — Public Law 104-104, enacted February 8, 1996, provided comprehensive reform of the 1934 *Communications Act*. The Act was designed to foster competition among local telephone, long distance telephone, cable and other communications companies.

Topography — The physical features of a surface area including relative elevations and the position of natural and man-made (anthropogenic) features.

Uncontrolled Exposure Limits — Also known as general population exposure limits. As defined by the Federal Communications Commission, applies to human exposure to radiofrequency fields when the general public is exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public always fall under this category when exposure is not employment related.

Viewshed — A physiographic area composed of land, water, biotic, and cultural elements which may be viewed and mapped from one or more viewpoints and which has inherent scenic qualities and/or aesthetic values as determined by those who view it.

Volatile Organic Compound (VOCs) — These particles are emitted as gases from certain solids or liquids. They include a variety of chemicals, some of which may have short- and long-term adverse health effects.

Wetlands — The U.S. Army Corps of Engineers (Federal Register, 1982) and the Environmental Protection Agency (Federal Register, 1980) jointly define wetlands as: Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Watts — One watt is equal to one joule (unit of energy) per second. This is a means of measuring the amount of energy being used in a device.

Wireless — Describing radio-based systems that allow transmission of telephone and/or data signals through the air without a physical connection, such as a metal wire or fiber-optic cable.

Wireless Telecommunication Facility — See definition for Cellular Telecommunication Facility.

ABBREVIATIONS AND ACRONYMS

AGL	above ground level
AQCR	Air Quality Control Region
CapWIN	Capital Wireless Integrated Network
CE	categorical exclusion
CEQ	Council on Environmental Quality
CFA	Commission of Fine Arts
CFR	Code of Federal Regulations
CLI	Cultural Landscape Inventories
CO	carbon monoxide
CTIA	Cellular Telecommunications and Internet Association
dB	decibel
dBa	A-weighted decibel scale
dbh	diameter breast height
dBm	an abbreviation for the power ratio in decibel (dB) of the measured power referenced to one <u>milliwatt</u> (mW)
DCDOT	DC Department of Transportation
DCHPO	District of Columbia Historic Preservation Office
DCMR	District of Columbia Municipal Regulations
DCOP	DC Office of Planning
DCOZ	DC Office of Zoning
DCRA	Department of Consumer and Regulatory Affairs
DDOT	District Department of Transportation
EA	environmental assessment
EIS	environmental impact statement

ABBREVIATIONS AND ACRONYMS

EMF	electromagnetic frequencies
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
FAA	Federal Aviation Administration
FCC	Federal Communications Commission
FONSI	Finding of No Significant Impact
FR	Federal Register
FRP	fiber reinforced polymers
GHz	Gigahertz
GMP	General Management Plan
GPS	global positioning system
GSA	General Services Administration
Hz	hertz
IMARZ	Incident Management Analysis and Reporting System
kHz	kilohertz
Leq.	decibel equivalent sound level
MHz	megahertz
MPE	maximum permissible exposure
MWCOG	Metropolitan Washington Council of Governments
NAAQS	National Ambient Air Quality Standards
NCPC	National Capital Planning Commission
NENA	National Emergency Number Association
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NO ₂	nitrogen dioxide
NPOMA	National Parks Omnibus Act

NPS	National Park Service
NRHP	National Register of Historic Places
NRSC	National Republican Senatorial Committee
O ₃	ozone
PCS	Personal Communications Service
PEPC	Planning, Environment and Public Comment
Pb	lead
PM ₁₀	particles of 10 micrometers or less in aerodynamic diameter
PM _{2.5}	particles less than 2.5 micrometers in aerodynamic diameter
RM	Reference Manual
ROD	Record of Decision
SAR	Specific Absorption Rate
SIP	State Implementation Plan
SO ₂	silicon dioxide
TALL	Telecommunications Asset and Location Leverage
TPD	tons per day
TPY	tons per year
USC	United States Code
USFWS	U.S. Fish and Wildlife Service
VOC	Volatile Organic Compound
WFI	Wireless Facilities, Inc.
WHO	World Health Organization
WTF	Wireless Telecommunication Facilities

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