

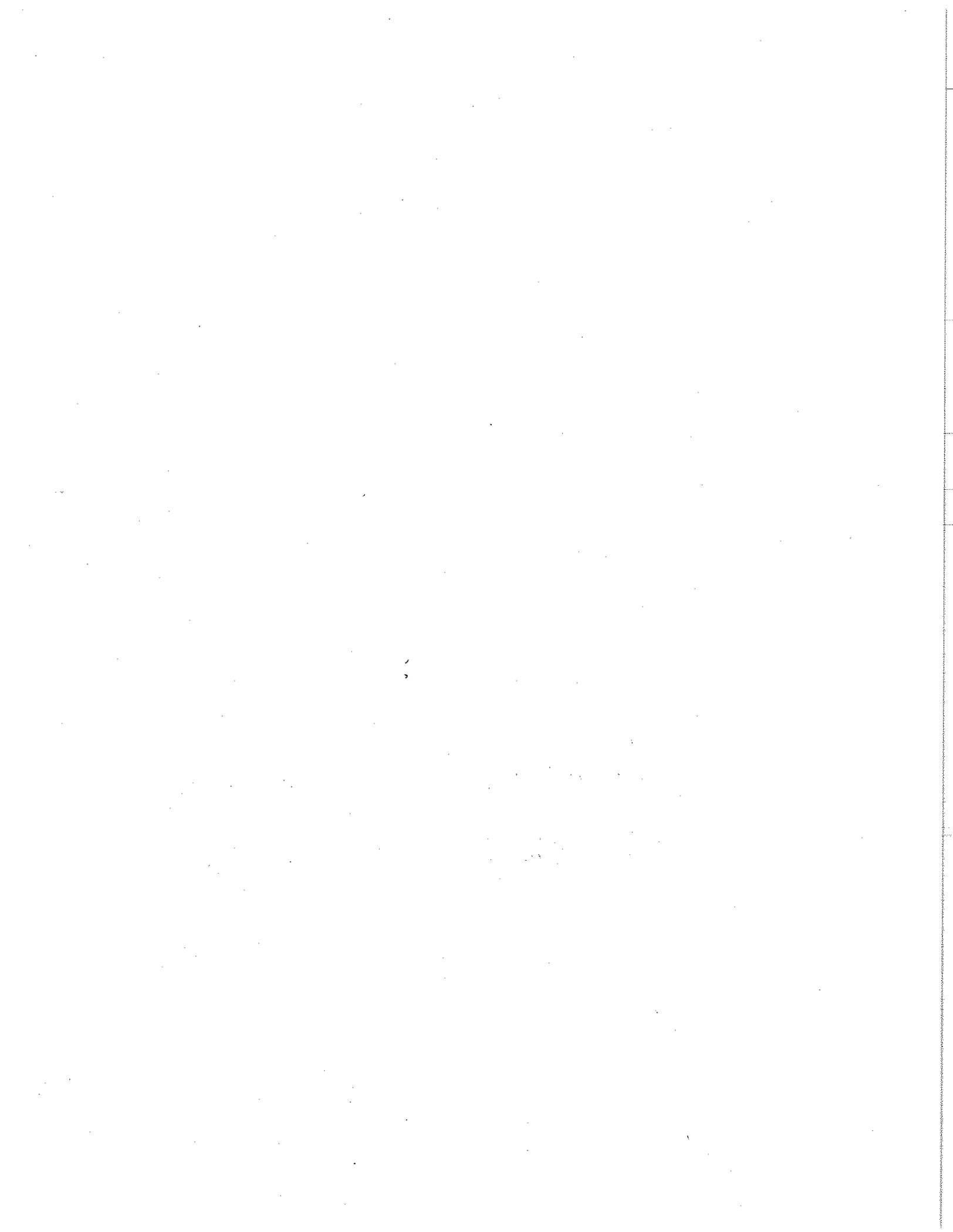
PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN



PIKES PEAK COMMUNICATION SITE  
MANAGEMENT PLAN

PIKE NATIONAL FOREST  
PIKES PEAK RANGER DISTRICT  
EL PASO COUNTY, COLORADO

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**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN****I. DEFINITIONS**

Authorized Officer. The Forest Service employee with the delegated authority to issue and manage communication uses. The authorized officer is usually the District Ranger or Forest Supervisor of the unit on which the communication site is located.

Co-location. Installation of telecommunication equipment in or on an existing communication facility or other structure.

Communication Site. An area of National Forest System (NFS) lands designated as an electronic site through the Forest Land and Resource Management planning process for telecommunication uses. A communication site may be limited to a single communication facility, but most often encompasses more than one. Each site is identified by name, usually denoting a local prominent landmark, such as Bald Mountain Communication Site.

Customer. An individual, business, organization, or agency that is paying a facility owner or tenant for communication services and is not re-selling communication services to others. Private ("other communication use" category) and internal (private mobile radio service and non-commercial microwave categories) communication uses leasing space in a building and not re-selling communication services to others are considered customers for rental calculation purposes.

Facility. A building, tower, or other physical improvement (buildings and towers do not have to be combined to be considered a facility) that is built or installed to house and support authorized communication equipment.

Facility Manager. The holder of a Forest Service communication use authorization who (1) owns a communication facility on NFS lands, (2) rents space in or on their facility to other communication users, but (3) does not own or operate their own communication equipment and does not directly provide communication services to third parties. Persons or entities that manage or administer a communication facility on NFS lands for a facility owner or a facility manager are not facility managers for purposes of this communication site plan.

Facility Owner. The holder of a Forest Service communication use authorization who (1) owns a communication facility on NFS lands, (2) may or may not be renting space or equipment to other communication users in or on their facility, and (3) owns and operates their own communication equipment in their facility.

Multiple-Use Facility. A communication site facility that has multiple communication uses operated directly by the facility owner or has customers or tenants in or on that facility.

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Ranally Metro Area. Geographic area in the United States identified by Rand McNally in its Commercial Atlas and Marketing Guide that defines a population center of 50,000 or more. There are approximately 450 Ranally Metro Areas (RMAs) in the United States.

Senior Use. A communication use that predates another communication use. The most senior use or uses form the basis for the communication site designation.

Single-Use Facility. A communication site facility that contains only the single communication use of the facility owner and no tenants or customers in or on the facility.

Tenant. A communication user who rents space in a communication facility and operates communication equipment for the purpose of re-selling communication services to others for profit. Tenants may hold separate authorizations, without sub-tenancy rights, at the full schedule rent based on the category of use.

## II. NARRATIVE

### A. Site Description

Pikes Peak Communication Site is located on the Pikes Peak Ranger District, Pike National Forest, El Paso County, State of Colorado, in Section 18, T.14 S., R. 68 W., 6th Principal Meridian, at approximately Latitude 38° 50' 22" North, Longitude 105° 02' 33" West. The elevation at Pikes Peak Communication Site is approximately 14,080 feet above mean sea level (msl). The area for development is approximately .50 acres in size. Pikes Peak Communication Site is road accessible via the Pikes Peak Highway.

This site does serve a Ranally Metro Area (RMA). The population is currently between 500,000 and 999,999 and is therefore Zone 4. The population identified for this Zone is updated annually by the Forest Service, Washington Office, Director of Lands, and is used to determine the annual rental fee due the Forest Service.

The most senior use at this site is private mobile radio service and the site is designated as low power. This designation was established in a Pike and San Isabel National Forests, Comanche and Cimarron National Grasslands, Land and Resource Management Plan approved in 1984 within prescriptions which allow electronic sites. The maximum power output for the Pikes Peak Communication Site is based on the maximum output allowed for two-way radio under the Federal Communication Commission's rules at Title 47, Code of Federal Regulations, Part 90.

This plan supersedes the Pikes Peak Electronic Site Plan approved April 5, 2000, and April 30, 1979.

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### **B. Existing Site Development**

Pikes Peak was first developed for communication purposes in 1979 under special use permit to the City of Colorado Springs, Communications Department, for the main purpose of communicating and monitoring operations associated with the administration of the City's municipal water supply system. Currently, the site continues to be utilized under a communications use lease by the City of Colorado Springs, specifically through the Colorado Springs Utilities Telecommunication Section of Colorado Springs Utilities, an enterprise of the City of Colorado Springs (PPK193). The communication site also houses equipment owned and operated by the U.S. Forest Service and several other governmental users. Prior to this, from the mid 1950s, the site was used for Forest Service and military communications only.

See Appendix B for a list of currently authorized facilities.

### **C. Objectives**

The primary objectives of the Pikes Peak Communication Site Management Plan are to:

1. Document site management policy, procedures, and standards, which are not already specified in the standard communication site lease.
2. Manage for low power communication uses only. The maximum power output expressed as ERP is based on the maximum output allowed for two-way radio under the Federal Communication Commission's rules at Title 47, Code of Federal Regulations, Part 90. As of the 2003 regulation, that is 500 watts ERP. Each use must operate at or below the power level authorized by their respective FCC license as long as it does not exceed the site limitation.
3. All uses must be designed, operated and maintained so as not to physically or electronically interfere with the senior uses. If new use deteriorates the receiving/transmitting operation of existing uses, the new use may be required to institute, at their expense, additional studies, equipment upgrades, frequency isolation, or physically separate themselves from the existing uses.
4. Present a program for operation within the site.
5. Help fulfill the public need for adequate communication sites.
6. Protect the interests of leaseholders and site users by preserving a safe and electronically "clean" environment.
7. Encourage the efficient development and use of space and facilities within the designated site, subject to the USFS goal to provide the best possible public service at reasonable cost.

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8. Authorize new Tenant and/or Customer uses that can physically and electronically be accommodated within existing buildings and/or towers.
9. Maintain visual resource objectives by requiring design standards that are unobtrusive and by utilizing earth tone colors and non-reflective surface material consistent with the standards in the Land and Resource Management Plan.
10. Amend this Communication Site Plan as necessary to be consistent with any future Forest Resource Management Plan. The Forest Service will provide authorization holders with proposed amendments to this plan and will allow a reasonable period of time for the holders to review and comment on the proposed changes.

**III. AUTHORITY AND JURISDICTION****A. Authority**

Forest Service authority to authorize and manage communication uses on National Forest System lands derives from the Federal Land Policy and Management Act of 1976 (43 U.S.C. 1761-1771); Title 36, Code of Federal Regulations, part 251, subpart B (36 CFR 251, subpart B); Forest Service Manual (FSM) 2700; and Forest Service Handbook (FSH) 2709.11, chapter 90.

**B. Jurisdiction**

The Forest Service has jurisdiction over the use and occupancy of National Forest System (NFS) lands for communication purposes under the National Forest Management Act (NFMA) of 1976 (16 U.S.C. 1600 et seq.); the Federal Land Policy and Management Act (FLPMA) of 1976 (43 U.S.C. 1701 et seq.), and Title 36, Code of Federal Regulations, part 251, Subpart B (36 CFR part 251, subpart B).

The Federal Communication Commission (FCC) has jurisdiction over the use of non-Federal channels of radio and television transmission under licenses granted by the FCC. The National Telecommunication and Information Administration (NTIA) has jurisdiction over the use of Federal channels of radio transmission under authorizations granted by the NTIA.

The issuance of an FCC license or NTIA authorization does not authorize the use and occupancy of NFS lands. A Forest Service special use authorization is required for the use and occupancy of NFS lands for communication purposes.

The Forest Service has jurisdiction over resolution of conflicts associated with the use and occupancy of NFS lands, such as those involving location and re-radiation. The FCC and NTIA are not responsible for resolving occupancy conflicts associated with the use and occupancy of NFS lands or the resolution of other conflicts when entities are

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operating within the limits of their FCC license or NTIA authorization. However, the FCC or the NTIA may be useful in assisting in the resolution of interference problems or other frequency conflicts.

**IV. RIGHTS AND RESPONSIBILITIES****A. The Forest Service**

The Forest Service retains the responsibility for issuing and amending authorizing instruments to Facility Owners and Facility Managers for the authorized improvements. The issuance of a FCC license (authorization), or frequency assignment, does not authorize occupancy of National Forest system lands. Granting occupancy and use of National Forest system lands rests exclusively with the Forest Service. This includes authority to:

1. Amend or modify this site plan as deemed appropriate.
2. Approve new facilities, including those constructed within a lease holder's authorized area.
3. Approve assignment of a communication site lease.

**B. Facility Owners and Facility Managers Are Responsible for:**

1. Complying with the terms and conditions of their communication site authorization and this site plan.
2. Ensuring that all new facilities, expansions, or improvements are consistent with the Pike and San Isabel National Forests, Comanche and Cimarron National Grasslands, Land and Resource Management Plan, environmental documentation and decisions affecting the use of this site, and the provisions of this site plan.
3. May rent building and tower space to tenants and customers without prior written approval from the Forest Service as long as that tenant or customer use is an approved communication use as designated in this site plan and does not interfere with other existing uses at the site. No permanent commercial or private non-profit radio or TV transmitting or relay facilities will be permitted on the summit of Pikes Peak.
4. May not place any unreasonable restrictions on potential or existing tenants and customers.
5. Ensuring that facilities and equipment not complying with federal, state, and local laws, regulations, and ordinances will be removed or modified within one year of approval of this site plan. Modifications require the pre-approval of the authorized officer.

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6. Keeping all facilities within the established limits of their authorized area. The facility owner or manager may not, for itself or for any customer or tenant, authorize construction of any equipment, shelter or tower, or manipulation of the site or vegetation in any way, without specific authorization from the Forest Service (See sec. VII).
7. Providing the authorized officer the name, address, and telephone number of a local contact. The facility owner or the facility manager and the local contact person may be the same individual. The local contact shall be available for emergencies and shall have the authority to make decisions about construction issues, facility maintenance, and all equipment within the facility.
8. Ensuring that all communications facilities and equipment are properly installed, operated, and maintained in accordance with industry standards such as Motorola R-56. These standards may be waived by the Forest Service authorized officer when recommended by a site user association or similar technical committee or upon request of a facility owner/manager when equivalent measures would achieve similar results.
9. Providing the authorized officer, by October 15th of each year, a certified statement listing the type or types of communication uses they provide and the business names of all occupants and their type of communication use in the facility as of September 30th of that year.
10. Treat and control noxious weeds on and adjacent to their permitted area, access, and parking areas. Treatment requirements and standards must be according to applicable regulations. Standards and application procedures may be obtained from the Forest Office.

**C. Tenants and Customers:**

May co-locate in an existing facility when their communication use is an approved use in the site plan. Co-location in a non-Federal communication facility does not require a Forest Service authorization. Tenants and customers who co-locate in a federal facility shall first be issued a special use permit from the authorized officer before locating in that federal facility.

**V. USE OF THE SITE****A. Multiple-Use Facilities**

Co-location, when practical, shall be required. Site applicants shall take the lead in this area and shall design their proposals to accommodate multiple uses of facilities and improvements. This includes the multiple-use of buildings, towers, solar generating

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systems, back-up generators, grounding systems, fuel containers, access ways, and parking areas.

Due to the limited development space at the site, new facilities, or major modifications to existing facilities, shall be designed to accommodate additional users even if other users are, or could be, competitors.

Facility owners and facility managers are not required to lease facility space to others if they can demonstrate to the authorized officer that:

1. Space is not available;
2. The use is incompatible with the existing communication uses at the site. For example, the proposed use is not compatible with other uses as provided for in FSH 2709.11, section 97, exhibit 05;
3. Additional space is needed by the facility owner or the facility manager; or
4. Additional users would compromise security of the facility or communication systems located in that facility.

**VI. RENTAL FEES**

Unless specified differently in the communication site lease, the Forest Service shall charge facility owners and facility managers of non-Federal facilities and tenants and customers in Federal facilities an annual rental fee based on the fee schedule for communication uses on National Forest System lands contained in FSH 2709.11, section 95. The rental rates shall be adjusted annually using the Consumer Price Index-Urban (CPI-U), and the population figures adjusted annually based on the most recent Rand McNally Commercial Atlas and Marking Guide (for RMAs) and Rand McNally Road Atlas for non-RMA communities.

Rental fees that facility owners and facility managers may charge their tenants and customers shall be:

1. Reasonable and commensurate with the use and occupancy of the facilities and services provided to tenants and customers; and
2. Consistent with other fees charged for similar facilities.

**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN****VII. CONDITIONS FOR NEW CONSTRUCTION AND MODIFICATION OR EXPANSION OF A FACILITY****A. New Construction, Modification, and Expansion Responsibilities**

Construction space at the site is extremely limited and future additional facilities are unlikely. If new facilities are proposed, or if the existing facility ever needs modification, the following guidelines shall apply.

In addition to the responsibilities listed in Section IV, proponents, facility owners, and facility managers seeking to construct a new facility or modify or expand an existing facility are responsible for:

1. Submitting a complete application to the authorized officer prior to any new construction, modification, or expansion of a facility. The application shall include:
  - a. A copy of the approved site plan base map showing all of the proposed new, modified, or expanded facilities, including structures, towers, and auxiliary equipment;
  - b. Completed drawings or plans prepared by a professional engineer or architect;
  - c. Identification of any proposed microwave beam paths, a plot of their azimuth, and their proposed elevation on the tower; and
  - d. Documentation showing that the proposed facilities will not obstruct or interfere with any existing uses, including fixed point-to-point antennas, omni-directional broadcast antennas, or microwave beam paths.
2. Demonstrating that the new facility will make the most efficient use of the limited amount of space at the site and will provide for future uses without additional construction.
3. Providing engineering and geotechnical investigations for development of specific foundation designs and grading plans.
4. Providing an erosion control plan prior to construction. At a minimum, the erosion control plan shall include sediment control, stipulations that cut and fill slopes will be graded and contoured to prevent erosion and excessive runoff, and recommendations for temporary erosion control measures, such as netting, silt fences, swales, sediment collection areas, and so forth.
5. Coordinating with other Federal and local governments and securing all pertinent permits and approvals from those agencies.

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6. Providing 30-day notice to all facility owners and facility managers at the site, as well as the Forest Service, of all new frequencies, either for themselves or their tenants and customers, proposed for the site. A completed FS-2700-10 shall be sent with the 30-day notice to allow for comment on potential interference. This would be for new frequencies for themselves and their tenants or customers.

**B. Construction Methods and Resource Protection**

Plans submitted by a proponent, facility owner, or a facility manager for construction, modification, or expansion of a facility shall provide for soil rehabilitation measures, including soil replacement and stabilization and proper handling of runoff from buildings, parking areas, access roads, and undeveloped common areas. The authorized officer must approve all cutting or trimming of vegetation.

During construction, modification, or expansion of facilities, facility owners and facility managers shall:

1. Identify, avoid, and protect sensitive resource areas identified by the Forest Service.
2. Comply with the erosion control plan.
3. Notify the Forest Service authorized officer prior to commencing any approved ground-disturbing activities.
4. Not clean off paintbrushes on rocks. No marks of any kind, including survey marks, will be permitted on rocks.
5. Minimize, to the greatest extent possible, ground disturbance and vegetation removal.
6. Re-vegetate extensive cut and fill slopes with native vegetation as soon as possible after construction. All re-vegetation must have prior written approval of the authorized officer.
7. Not cast off grading material. Excess soil can be used as fill material for roads, buildings and towers.
8. Obtain prior written approval of the authorized officer for temporary, on-site storage of construction materials.
9. Not leave hazardous materials, including fuels, oils, and lubricants unattended at the site at any time. Hazardous materials shall be removed from the site at the end of each workday or temporarily stored inside a locked and posted building until the following workday. Construction materials and supplies other than hazardous materials may be left unattended at the construction site at the end of each workday at the owner's risk.

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10. Remove surplus construction materials and waste debris from the site no later than 30 days after construction has been completed.
11. To prevent the spread of noxious weeds into the area, power wash off any earth-moving or heavy equipment, such as dozers, graders, cranes, backhoes, and so forth before it is brought onto National Forest System lands.

**C. Construction Inspection**

1. All new construction, modification, and expansion of facilities shall conform to established technical standards and accepted engineering practices, such as the Uniform Building Code.
2. Any construction inspections required by other agencies are the responsibility of the holder. Copies of completed inspections shall be provided to the authorized officer, either as they occur or as part of the final as-built plan. Inspection information shall become a permanent part of the holder's special-use file.
3. Corrective work required as a result of Forest Service or other agency inspections shall be completed by the date specified in the inspection report to the satisfaction of the inspecting official.
4. A final set of as-built plans shall be submitted to the authorized officer within 90 days of acceptance of a structure (if the construction was contracted) or of its completion date (if the construction was not contracted).

**D. New or Remodeled or Expanded Buildings**

1. Any new buildings shall be designed to accommodate multiple users and shall be consistent with a site-specific environmental analysis conducted at the time of the proposal.
2. Buildings shall be one-story and have a flat roof. The roof shall be non-reflective metal or other non-reflective fire resistant material approved by the Forest Service. Building height will be restricted to a single story unless specifically authorized for two stories or with a snow vestibule. Roofs can be equipped with antenna support structures, such as poles and railings that can extend up to 25 feet above ground level.
3. Facility owners and facility managers are encouraged to construct the interior of their buildings in a modular fashion, so that they can:
  - a. Sublease sections to others;
  - b. Provide tenants and customers with internal separation and security;
  - c. Reduce physical interference; and

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- d. Increase management effectiveness.
4. The following materials are approved for construction of new buildings:
- a. Floors: Concrete slab with drainage or as part of a non-flammable pre-fabricated structure.
  - b. Walls: Concrete block, metal, or pre-fabricated concrete.
  - c. Roofs: Concrete, metal (if painted to eliminate shiny surfaces), or other fireproof material approved by the Forest Service. Proposals for wooden roofs will not be approved.
  - d. Partitions: Fire resistant material, such as reinforced concrete or properly grounded expanded metal.
  - e. Color: Color used on all exterior building surfaces must have prior written approval of the authorized officer. The goal of color selection is to make buildings as inconspicuous as possible when viewed from a distance. The intent is to reduce or eliminate glare from reflective and/or illuminated surfaces such as windowpanes, sheeting and reflective paints. Non-reflective, Forest Service-approved dark gray to green colors shall be used on equipment buildings.

Building entry lights must:

- a. Only light the immediate area in the vicinity of the door;
- b. Be motion-activated and have a limited time duration of 3 to 5 minutes; and
- c. Have a shielded beam that is pointed at the building door.

Requests for all-night (dusk-to-dawn) lighting or entry lighting that would be visible from outside the site will not be approved.

**E. New or Remodeled/Expanded Towers**

1. All construction, modification, and expansion of towers shall have the prior written approval of the authorized officer.
2. It is the applicant's and holder's responsibility to ensure that new, modified, or expanded towers will not unduly interfere electronically or physically with any existing equipment at the site. Towers shall be spaced so as to prevent ground level radiation and interference problems. Compliance with these requirements shall be demonstrated in writing to the authorized officer prior to issuance of a lease, permit, or amendment.

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3. All new towers shall comply with current structural and safety specifications and design standards, including safety-climbing devices. Towers should be as narrow and "open" as safety and structural integrity allow. New towers should be designed using maximum wind, snow, and tower loading anticipated for the site.
4. All new towers (including antennas) shall be collocated, maintain a low profile and not exceed 30 feet. All new towers shall be self-supporting unless specifically authorized.
5. To avoid possible impacts to birds or bats, follow the most current version of the U.S. Fish & Wildlife Service's Interim Guidelines on the Siting, Construction, Operation and Decommissioning of Communication Towers (available at <http://migratorybirds.fws.gov/issues/towers/comtow.html>).
6. All towers shall be left unpainted if they are made of dull, galvanized steel. Paint is required only if the tower has a shiny or reflective surface. Non-reflective, Forest Service-approved dark gray to green colors will be approved unless the FAA requires red and white tower striping.
7. No lights, beacons, or strobes shall be allowed on new towers unless specifically required by the FCC/FAA.

### VIII. GENERAL OPERATION AND MAINTENANCE

#### **A. Special Environmental and/or Biological Considerations**

In 1963, the Summit of Pikes Peak above the 14,000 foot contour was designated as a National Historic Landmark. Proposed site improvements would require approval from the U.S. Forest Service with consultation from the U.S. Park Service and State Historic Preservation Officer.

If issues arise in the future, this plan will be amended in accordance with the applicable decision or direction.

#### **B. Wiring and Grounding**

1. All equipment shall be installed in metal cabinets or open frame equipment racks that are grounded and shielded. Grounding is to be installed in accordance with manufacturer's recommendations and accepted industry standards.
2. All electrical wiring and grounding shall meet the National Electrical Code and applicable State codes. All permanent wiring shall be installed in metallic conduit. Surge protection shall be installed on all power distribution panels.

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3. Every effort shall be made to protect the equipment from lightning damage. Lightning protectors should be used on all coaxial cable connections to equipment enclosures. Gas gap and MOV protectors should be used on all control, audio, and power lines.
4. Each building shall have its own separate grounding system for all users in that structure. Wherever practical, interconnection of individual grids and/or the simultaneous placement of large sized copper ground wire with any new grounding systems that are buried on the site shall be encouraged.
5. Grounding shall be installed in accordance with accepted practices and standards, such as Motorola specification R-26 and the NEC. Grounding using bentonitic clays is currently the only approved method for chemical grounding. Other types of chemical grounding shall require completion of NEPA documentation by the applicant prior to consideration for approval by the authorized officer.

**C. Communication Equipment****1. Equipment Ownership**

All equipment shall be labeled with:

- a. The owner's name;
- b. Applicable transmitter frequencies;
- c. The applicable FCC license or NTIA authorization;
- d. Transmitting power outputs; and
- e. A current 24-hour telephone contact number.

**2. Transmitting Equipment**

All transmitters shall have protective devices built into them or externally installed to prevent interference with other uses. All transmitters shall meet FCC licensing requirements.

The re-radiation of intercepted signals from any unprotected transmitter and its associated antenna system shall be prevented by the use of appropriate filters, typically bandpass filters, circulators, and/or harmonic filters.

The direct radiation of out-of-band emissions (noise or spurious harmonics) shall be reduced to a level such that it may not be identified as a source of interference as defined in FCC Regulations (47 CFR 90.209(e)). If site noise (electromagnetic noise)

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becomes an issue, noise threshold limits shall be established, and amended into the Site Plan.

All transmitters not in immediate use and not specifically designated as standby equipment shall be removed. Loads connected to circulators shall be capable of dissipating the total power output of the transmitter.

### 3. Receiving Equipment

A bandpass device, such as a cavity or crystal filter, is recommended at the input of all receiving devices. Cavity filters or other protective devices may be used at receiver inputs to reduce interference.

Where duplexing is used, a notch-type device should be avoided. In situations where a notch-type device is used, a bandpass filter shall be used on both the receiver and transmitter.

### 4. Antennas

- a. Microwave (dish) antennas and other than ground-mounted satellite dishes shall not exceed 10 feet in diameter / or minimum diameter necessary to meet needs.
- b. All antennas shall meet all OSHA safety standards. If an antenna is operating in excess of FCC public or occupations standards, steps will be taken, such as fencing, posting of signs, relocation, lowering power levels, within 24 hours to bring it into compliance. Ground measurements of RFR levels will be taken before mitigation measures are implemented.
- c. Colors for dish antennas or covers shall be pre-approved by the authorized officer. White dish antennas and covers will not be approved. Existing white dishes and covers shall be repainted or replaced as repairs or replacement become necessary.
- d. Antennas shall be treated to reduce or eliminate reflected glare.
- e. Low-powered transmit and receive antennas may be located low on the tower or on the ground.

### 5. Interference

The responsibility for correcting interference problems lies with the holder of the communication site authorization for the facility, the user causing the interference, and the affected parties. Generally, the first users at a site have seniority with respect to resolution of interference complaints. Senior users have an obligation to maintain their equipment to industry standards, to operate their systems in accordance with the terms of both the FCC license and NTIA/IRAC frequency authorization, and to comply with the Forest Service communication site authorization. New users at a site

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shall correct, at their expense, interference problems that they create. They shall cease operation of the suspect equipment until the problem is corrected. If interference problems cannot be resolved or corrected within a reasonable time, the new use that is causing the interference may be terminated and the equipment removed.

If a site user's association is formed, all users shall cooperate with the Forest Service in the identification and correction of any interference. The Forest Service does not have any responsibility for correcting interference problems, but can act as a mediator to help all affected parties. Interference problems should be coordinated with the FCC or NTIA, as appropriate.

Interference with law enforcement and emergency communication shall be corrected immediately. Operation of equipment covered by this site plan shall not interfere with Federal Government radio or electronic operations already in existence on National Forest System lands within two miles of the Pikes Peak Communication Site. The user causing this interference shall, at their own expense, take all actions necessary to prevent or eliminate the interference. If they do not eliminate the interference within ten days after receipt of notice from the Forest Service to do so, their use will be terminated.

If electromagnetic noise becomes an issue, noise thresholds shall be established and incorporated as an amendment to this site plan. The cost of such analysis is the responsibility of the lease holders.

**D. Cables and Transmission Lines**

All new cabling shall be jacketed and shielded and shall either be flexible or semi-rigid. Existing substandard cables shall be upgraded as repairs or replacement become necessary. Cables shall be properly installed, strapped, and fastened down. Cable runs should be consistent with applicable engineering standards when attaching cables onto a tower.

All transmission lines (wave guides) shall be supported in accordance with manufacturer's specifications. Unjacketed transmission lines or unjacketed cables of any type are prohibited. No transmission lines shall be left unterminated.

Double-shielded braided or solid-shielded cable shall be used. No RG-8 cable is permitted. No connector-type adapters shall be used on transmission lines. Only correct connectors that will mate to connected devices may be used.

Conduits shall be shared when they service common areas and shall be buried where possible.

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All communication uses shall meet ANSI, FCC, and Forest Service regulations, policy, guidelines, and standards concerning radiation limitations.

Monitoring radiation levels at the site is the responsibility of all site users and shall occur at intervals to comply with FCC regulations and guidelines. A copy of the monitoring report shall be provided to the Forest Service within 30 days of its completion.

Onsite RFR measurements shall be taken using appropriate equipment that can adequately measure levels both on the tower and on the ground before mitigation measures related to RFR are implemented.

Security fences with RFR notice signs are required around areas that exceed public use levels. All fencing location and design shall be pre-approved by the Forest Service.

Warning signs shall be in English and Spanish and comply with ANSI C95.2 color, symbol, and content conventions. Contact information, including name and telephone number will also be included on warning signs.

Any identified RFR problems that are, or could be, a human health hazard shall be corrected within 24 hours after measurement tests have been completed, or the equipment involved shall be removed from the site by the site user. Any ground disturbance associated with correction of RFR problems or removal of equipment causing the problem must have prior written approval of the authorized officer.

**F. Utilities**

Site users shall pay for the cost to install and maintain utilities, including any resource surveys and reports needed for environmental compliance. For visual reasons, new overhead utility poles are not authorized.

**1. Commercial Electrical Power**

Commercial power is provided by Colorado Springs Utilities.

**2. Telephone Service**

Commercial telephone lines do not service this site.

**3. Fuel Storage**

Fuel storage facilities on this site must be designed, installed and maintained according to applicable federal, state and local laws and ordinances.

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If additional service is ever deemed necessary, a separate authorization will be issued to the owner of the service following the appropriate NEPA analysis and decision. The applicant must pay the cost of necessary resource surveys, and reports and construction costs including appropriate mitigation. For visual reason, overhead utility lines may not be authorized.

**G. Sanitary Facilities**

While no sanitation facilities exist at this site, public restrooms are available in the nearby Summit House. If needed, any new sanitary facilities shall be pre-approved by the Forest Service. If it is determined by the authorized officer that the user needs such facilities, they will be provided by the applicant/holder in a manner and location satisfactory to the authorized officer and requirements of the local health department.

**H. Security and Law Enforcement**

The Colorado State Highway Patrol, Colorado Springs Police Department, and El Paso County Sheriff's Department are the principal law enforcement agencies for the area in which the Pikes Peak Communication Site is located. Generally, the Highway Patrol, Colorado Springs Police Department, and County Sheriff are responsible for civil and criminal law enforcement. Generally, the Forest Service is responsible for enforcing Federal laws applicable to NFS lands, such as resource protection. Patrol and policing for security purposes is the holder's responsibility.

The facilities at Pikes Peak Communication Site are not fenced. If additional fencing is ever deemed necessary for security purposes at other facilities on the site, it must meet the following criteria:

1. All fences must meet health and safety requirements.
2. All fence locations and design require Forest Service pre-approval.
3. The standard fencing type will be chain-link (i.e. cyclone).
4. The standard fence height will be eight (8) feet.
5. Fencing will be designed, maintained, and of a type to minimize interference issues.
6. Fences will be signed with RFR notices if RFR is above public levels.
7. Proposed fencing shall not cause an adverse effect to the characteristics and criteria which established the Summit of Pikes Peak as a National Historic Landmark.

Buildings shall be posted with a 24-hour contact phone number(s) on the main door(s) into the building where appropriate.

**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN****I. Site Maintenance**

The objectives of site maintenance are to present a clean, neat, and orderly appearance at the site and to have all the authorized improvements at the site be safe for workers and the public. All users are responsible for maintaining the overall appearance of the site.

Miscellaneous debris remaining after any construction or installation, removal or modification of equipment is not only a hazard but can cause interference or intermodulation problems. All loose debris must be removed from the site within 30 days after completing construction, reconstruction, or other activities. In particular, all loose wire or metal objects shall be removed from the site. The users of the site shall remove graffiti within ten working days of finding it. If graffiti is on natural features, such as rocks and trees, site users will remove graffiti in a method approved by the authorized officer.

HOLDERS may not leave or dispose of trash, garbage, or cut brush on NFS lands. No outside trash or litter containers are allowed. Site users shall remove all trash and litter from the site as it is produced. Policing of litter in common areas, such as the areas between buildings and developed sites, is the shared responsibility of those holders bordering these areas.

Peeling paint on buildings and towers shall be re-painted within thirty days of discovery or as soon as possible as allowed by weather conditions.

**J. Inspections**

Unless waived in writing by the authorized officer, the holder shall conduct annually a certified inspection of the facilities and equipment covered by the authorization. The inspection shall include a technical review ensuring that all authorized equipment is operating in accordance with requirement of the site plan, the applicable FCC license or NTIA authorization, ANSI standards, and the manufacturer's specifications. In addition, the inspection should ensure that the authorized equipment is secure, free of rust, properly grounded, and otherwise properly operated and maintained. A copy of the inspection report, certified by a telecommunication specialist, shall be provided to the authorized officer within 30 days of completion of the inspection. The Forest Service may also conduct periodic reviews to monitor for authorization compliance.

**K. Fire Prevention and Hazard Reduction Requirements**

Facility owners and facility managers will be required to control vegetation within the fenced or immediate area around their facilities. Gravel / mineral soil (i.e. bare ground) / mowed vegetation must be maintained to a minimum of ten (10) feet clearance around buildings and a minimum of ten (10) feet clearance around any propane tanks. Identified

**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN**

threatened, endangered, or sensitive plant species must remain within the minimum clearance areas.

Smoking is prohibited in flammable vegetation areas.

Roof structures shall be kept reasonably clear of debris at all times.

No explosives will be stored at this site. Flammable materials shall be stored in conformance with the requirements of local fire regulations. Flammables will be placed in closed containers and stored away from sources of ignition and combustible materials. If flammables are stored within a building, the building will be locked, properly signed and well ventilated.

Approved spark arresters will be required and maintained on all internal combustion engines.

At least one (1) U.L. rated 20 lb. A:B:C dry chemical fire extinguisher is required inside each building. Prior to each June, fire extinguisher(s) shall be inspected by holders and refilled, if necessary.

Any fire will be immediately reported to "911", the nearest Forest Service office and/or El Paso County Sheriff.

Forest Service officers will make periodic fire prevention inspections. They will call to the holder's attention any lack of compliance with the above regulations, plus any other existing hazards. Compliance with these inspections is required within the time limits specified in the inspection report.

All fire protection standards must be accomplished by the beginning of fire season unless otherwise agreed to, and then maintained throughout the fire season.

For new construction, the Forest Service will provide the holder with a separate Construction Fire Plan which will be prepared at that time, as applicable. State and local laws/regulations must be followed for diesel tank installation.

**L. Access****1. Road**

Holders who damage the access road, or any of its associated improvements, such as ditches, culverts, roadside vegetation, signs, and underground utilities and facilities, shall be required to repair the road to conditions equal to or superior to those prior to any damage or disturbance.

## PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN

Access to Pikes Peak Communication Site is from the Pikes Peak Highway, which is maintained and operated by the City of Colorado Springs - Pikes Peak - America's Mountain, under the authority of a special use permit issued by the Forest Service. Access to the site from Colorado Springs is via west-bound Highway 24 seven miles to Cascade, Colorado, exiting west onto the Pikes Peak Highway. The Pikes Peak Highway winds its way west and south to the summit of Pikes Peak. Travel distance to the summit is approximately 19 miles from the entrance station. The Highway is operated as a tourist attraction and is open year around. Short periods of heavy snowfall, mostly in the spring, could delay travel by motor vehicles, but rarely is the road closed for any significant period of time. If access by motor vehicles is limited due to a road closure, snowmobile or snowcat access can be used. The Pikes Peak Communication Site is located approximately eight air miles west of the city of Colorado Springs and driving time is approximately one half hour.

### 2. Internal Roads and Parking Areas

Internal roads and parking areas within the communication site are the responsibility of the site users. Interior roads and parking areas shall be planned and approved by the authorized officer in conjunction with establishment of new facilities. Interior roads shall be maintained so as to allow only one entrance to the site. The intent is to discourage off-road vehicle use in and around the site.

### 3. Road Closures

Forest Service roads are subject to periodic closures to entry during periods of extreme fire danger, inclement weather, or wetness. Site users may access the site during these closures if they have prior, written approval from the authorized officer.

## IX. SITE ASSOCIATION AND ADVISORY GROUP

A site association is probably not needed at this time. If development were to increase, a user's association may become desirable. Leadership would need to come from one of the users. If needed in the future, the site association would be responsible for obtaining and maintenance of an administrative access and upkeep of internal roads and parking areas. The site association would also be responsible for ensuring cooperation between users for on-tower access. A site safety officer would be identified within the site association. The site association would be expected to develop a Radio Frequency Radiation Plan/Agreement and recommend measures to reduce interference issues (e.g., through use of filters).

The goal of the site association would also be to maximize the effective use of the site. The objective of a sanctioned association would be to represent all site users as a group when dealing with the Forest Service on matters relating to site administration. The association would be able to work in cooperation with the Forest Service to identify problems or opportunities and make recommendations to the Forest Service for any

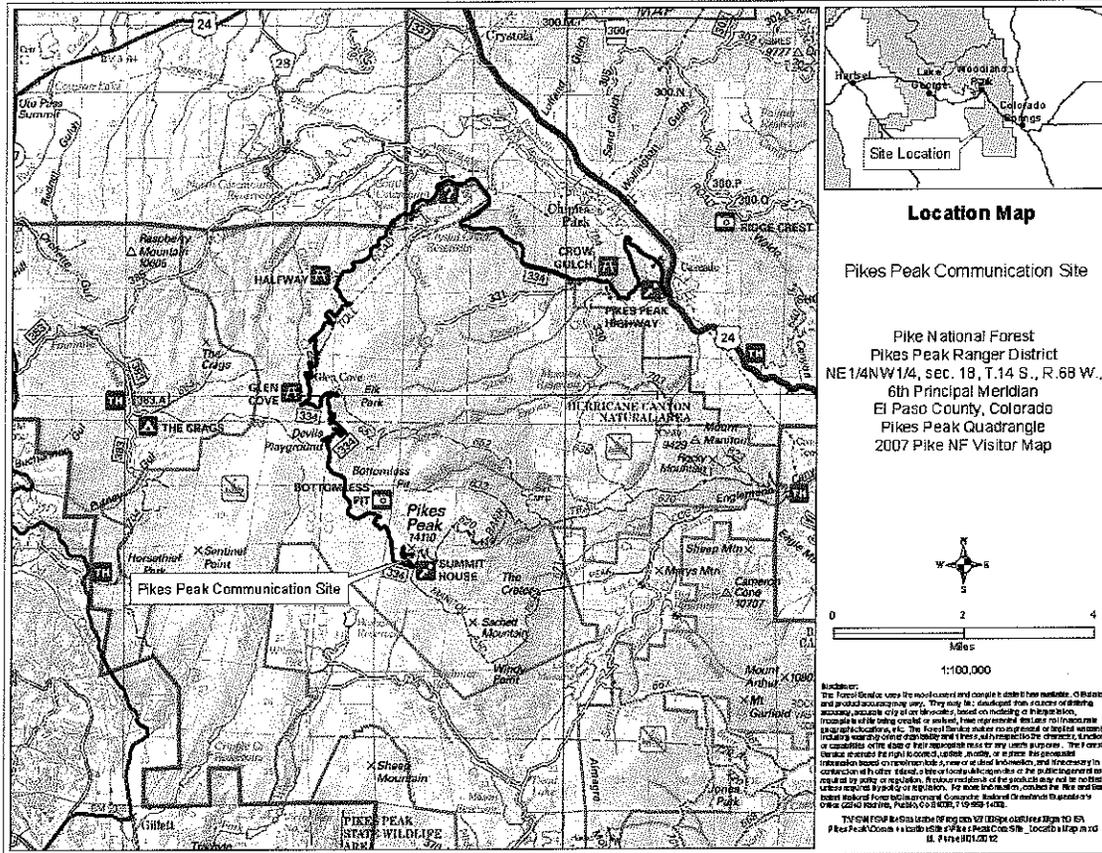
**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN**

changes in management strategies at the site. The association could also provide input to the Forest Service regarding the future addition of equipment and facilities at the site. While the advice and recommendations of the association would not be binding on the Forest Service, the Forest Service could use the input for administration of the site. The Forest Service would be a member of such a group and would help jointly develop the charter (i.e., the ground rules).

# PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN

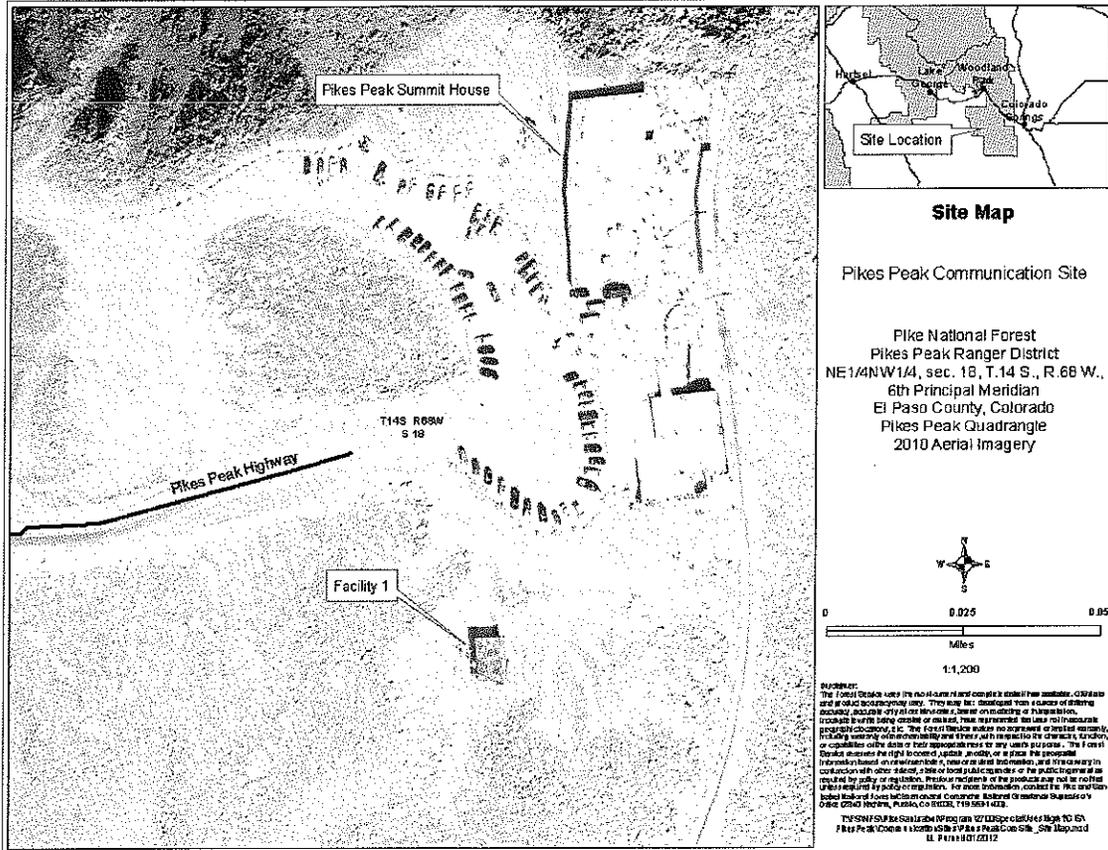
## X. APPENDICIES

### APPENDIX A – Location Map



# PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN

## APPENDIX A - Site Map

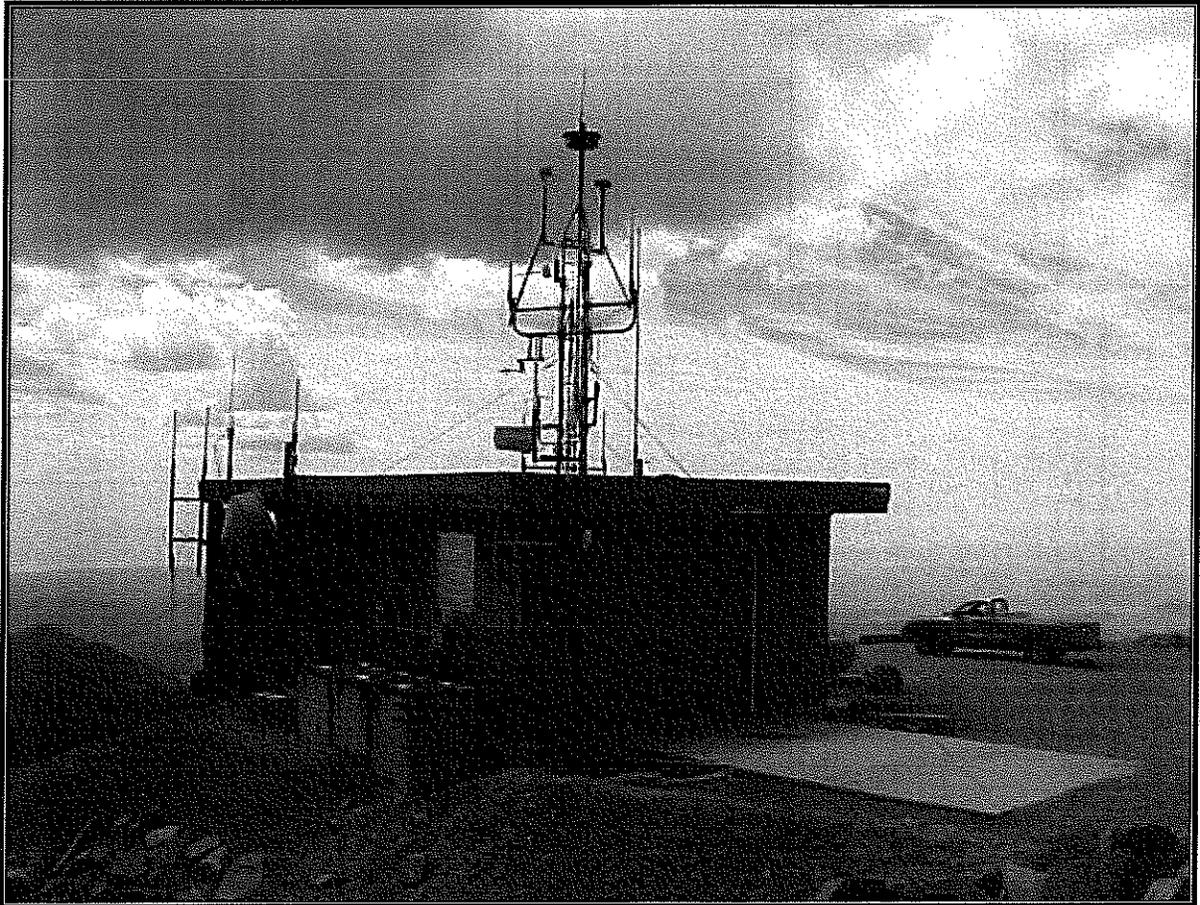


**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN****APPENDIX B – Authorized Facilities**

	<b>Auth #</b>	<b>Use</b>	<b>Building</b>	<b>Tower</b>	<b>Other</b>
<b>Facility #1 Colorado Springs Utilities</b>	<b>PPK193</b>	<b>PMRS and Microwave</b>	<b>24' 4" x 37' 4" Concrete block structure.</b>	<b>20' Self Supporting Metal Tower</b>	<b>Propane Tank (500 gal.)</b>

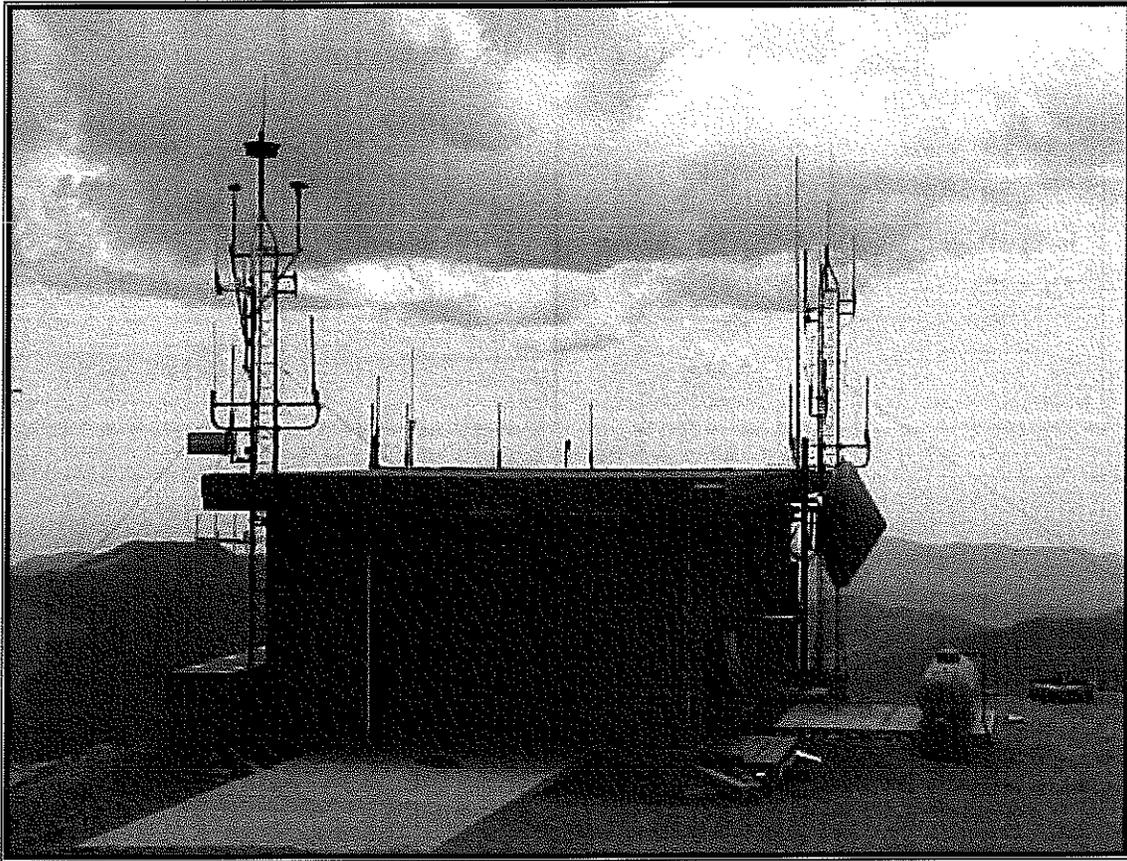
**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN**

**APPENDIX C – Facility Photographs**



Site Improvements include: Concrete block structure with concrete entrance pad, access driveway, parking area, 20' tower, building mounted 6' microwave dish and antennas, propane tank, and electric transformers.

**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN**



Pikes Peak Summit, view of facility looking in a southerly direction.

**PIKES PEAK COMMUNICATION SITE MANAGEMENT PLAN**

**APPENDIX D – Inspection Checklist**

**“Pikes Peak Annual Technical Inspection”**

Date Inspected: \_\_\_\_\_ Time Inspection: \_\_\_\_\_  
 Permit Holder: \_\_\_\_\_ Authorization # \_\_\_\_\_  
 Site Technician: \_\_\_\_\_ Phone # \_\_\_\_\_  
 Number of Transmitters \_\_\_\_\_ License Posted \_\_\_\_\_

*Please mark the following Items as Acceptable (A) or Unacceptable (U).*

Electrical Wiring ----- (A) (U)	Grounding ----- (A) (U)
Equipment Installation ----- (A) (U)	Housekeeping ----- (A) (U)
Building Repair ----- (A) (U)	Tower Repair ----- (A) (U)

*Please mark the following Items as Yes (Y) or NO (N) or (NA)*

Isolators ----- (Y) (N) (NA)	Circulators ----- (Y) (N) (NA)
Cavities ----- (Y) (N) (NA)	Terminators ----- (Y) (N) (NA)
Filters ----- (Y) (N) (NA)	Lightning Protection ----- (Y) (N) (NA)

Comments:  
\_\_\_\_\_  
\_\_\_\_\_

Recommended Corrective Action:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Required Corrective Action To Be Taken:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Committee Representatives:  
\_\_\_\_\_

Forest Service Representatives:  
\_\_\_\_\_

*Please make the required corrective action within the next 120 days.  
Please make a written report of corrective action taken and submit to the FS. If you should have any questions, please call the Forest Service office.*

