



Dear Applicant,

We would like to take this opportunity to **Thank You** for choosing APCO Licensing Services! Rest assured you are in good hands. We have qualified and professional staff with extensive knowledge in FCC rules and procedures.

Our goal is to make this process as easy as possible for you. We will walk you through the licensing procedure from start to finish and will be here every step of the way to answer any questions you may have.

Please fill out the attached Licensing Service worksheet to the best of your knowledge. You may send it back via email and we will inform you if any additional information is required. If you need any assistance with filling out the worksheet or have any questions, please feel free to contact one of our experienced licensing professionals.

**Karen Sowers, Licensing Specialist**

**Direct: (386) 944-2469**

**Email: [sowersk@apcointl.org](mailto:sowersk@apcointl.org)**

**[www.apcoafc.org](http://www.apcoafc.org)**

**Thank you for your business!**





***AFC-APCO's Spectrum Management Division – Licensing Services***

***4940–4990 MHz band (4.9 GHz band)***

Please complete this worksheet and send it to the APCO Licensing Service for initial review. You will be contacted for any additional information required to complete the FCC Form 601, and you will be notified of the fees for application preparation and coordination.

**Applicant Information**

FCC Registration Number (FRN): \_\_\_\_\_ **(Required item)**

Entity Name: \_\_\_\_\_

Attention: \_\_\_\_\_ Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Phone: (     ) \_\_\_\_\_ E-mail: \_\_\_\_\_

Applicant's Representative (if different than above): \_\_\_\_\_

Phone: (     ) \_\_\_\_\_ E-mail: \_\_\_\_\_

APCO Member? YES \_\_\_\_\_ NO \_\_\_\_\_

Call Sign: \_\_\_\_\_

Please briefly explain what you are requesting:  
\_\_\_\_\_

**Is the License for:** *(please check which one)*

- 1) **Radio Svc Code PB** - Base/mobile, mobile-only or temporary fixed \_\_\_\_\_
- 2) **Radio Svc Code PF** - Permanent fixed point-to-point, point-to-multipoint and fixed receiver stations \_\_\_\_\_

***Please review Page 8 for more information***

**\*The 4.9 Applications are processed directly on the FCC's Universal Licensing System (ULS). We need the password that goes with your FRN. If the password is unknown or needs to be re-set the licensee can call the FCC at 877-480-3201 and select option #1 or if a security question has been set up for the FRN, the licensee can re-set their password online. \***

**PASSWORD:** \_\_\_\_\_

- List Control Points (**Contact Points**): *(Attach list if more than one address)*  
**(Enter the address and phone number where a person responsible for system operations may be reached.)**

Street Address (no POB), or geographical description: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

Telephone Number: (     ) \_\_\_\_\_

## General Certification Statements

1) The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application.
2) The Applicant certifies that grant of this application would not cause the Applicant to be in violation of any pertinent cross-ownership or attribution rules.* *If the Applicant has sought a waiver of any such rule in connection with this application, it may make this certification subject to the outcome of the waiver request.
3) The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
4) The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR § 1.2002(c). See §1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.
5) The Applicant certifies that it either (1) has current required ownership data on file with the Commission, (2) is filing updated ownership data simultaneously with this application, or (3) is not required to file ownership data under the Commission's Rules.
6) The Applicant certifies that the facilities, operations, and transmitters for which this authorization is hereby requested are either: (1) categorically excluded from routine environmental evaluation for RF exposure as set forth in 47 C.F.R. 1.1307(b); or, (2) have been found not to cause human exposure to levels of radiofrequency radiation in excess of the limits specified in 47 C.F.R. 1.1310 and 2.1093; or, (3) are the subject of one or more Environmental Assessments filed with the Commission.
7) The Applicant certifies that it has reviewed the appropriate Commission Rules defining eligibility to hold the requested license(s), and is eligible to hold the requested license(s).
8) The Applicant certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.

### Signature

#### 56) Typed or Printed Name of Party Authorized to Sign

First Name:	MI:	Last Name:	Suffix:
57) Title:			
Signature:			58) Date:

**FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.**

**Upon grant of this license application, the Licensee may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in termination of the license. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of license requested in this application.**

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).**

(General Certification Statements and Signature taken directly from FCC 601, Main Form, February 2008, Page 4; Applications, amendments, and related statements of fact filed on behalf of eligible government entities must be signed by a duly elected or appointed official who is authorized to do so under the laws of the applicable jurisdiction; if the applicant is a corporation, by an officer, director, or duly authorized employee; or by their legal representative as per CFR Title 47, §1.91

## New Structure Types List

With the new rules for the Migratory Birds effective, June 18, 2012 (NEPA Compliance for Proposed Tower Registrations; Effects of Communications Towers on Migratory Birds) the Federal Communications Commission has revised the Structure Type list in ULS (Form 601) and ASR (Form 854) and TCNS. The revised list of Structure Types as follows:

<u>Code</u>	<u>Definition</u>
B	Building
BANT	Building with Antenna on Top
BMAST	Building with Mast
BPIPE	Building with Pipe
BPOLE	Building with Pole
BRIDG	Bridge
BTWR	Building with Tower
GTOWER	Guyed structure used for communication purposes
LTOWER	Lattice Tower
MAST	Mast
MTOWER	Monopole
NNGTANN*	Guyed Tower Array
NNLTANN*	Lattice Tower Array
NNMTANN*	Monopole Array
PIPE	Any type of Pipe
POLE	Any type of Pole
RIG	Oil or other type of Rig
SIGN	Any type of Sign or Billboard
SILO	Any type of Silo
STACK	Smoke Stack
TANK	Any type of tank (water, gas, etc.)
TREE	When used as a support for an antenna
UPOLE	Utility Pole/Tower used to provide service (electric/telephone, etc.)

## Site Information for licenses for base/mobile, mobile-only or temporary fixed

(Use additional pages for more sites)

Action: **A**dd/**M**odify/**D**elete site \_\_\_\_\_

If you are modifying or deleting a site, please reference the site number from your license. **Site #** \_\_\_\_\_

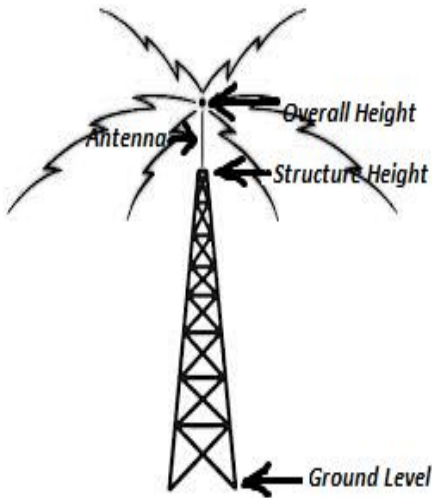
Site address (POB not acceptable): \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

FCC Antenna Structure Registration #: \_\_\_\_\_, **or** N/A \_\_\_\_\_

**Latitude:** (DD/MM/SS.S) \_\_\_\_/\_\_\_\_/\_\_\_\_ **Longitude:** (DDD/MM/SS.S) \_\_\_\_/\_\_\_\_/\_\_\_\_

(Coordinates must be shown in degrees, minutes, and seconds in North American datum 1983. Example: 28-32-56.9N/082-24-01.3W)



<b>Ground Elevation:</b> _____(meters) _____(feet) (Measure from sea level)
<b>Structure ht.:</b> _____(meters) _____(feet) (Measure from ground to the tip of the structure only)
<b>Overall ht. (structure plus antennas):</b> _____(meters) _____(feet) (Measure from ground to the tip of the highest antenna)
<b>Support structure type:</b> _____ Examples: B (Building), GTOWER (Guyed Tower), LTOWER (Lattice Tower), TANK (Any type of tank such as gas, water, etc.)
<b>Antenna ht.:</b> _____(meters) _____(feet) (Measure from ground to the tip of the antenna)
<b>AAT for Antenna #1:</b> _____(meters) _____(feet) (APCO can calculate AAT for you at no charge)

**Please provide the Antenna Specification Sheet with Model & Manufacturer and provide the following parameters.**

(This information should be available from the manufacturer's specification sheet included with the antenna at time of purchase.):

Antenna #	Azimuth (degrees)	Beamwidth (degrees)	Polarization	Gain (dB)

**Describe mobile area of operation:** \_\_\_\_\_

(It is recommended that your agency request a mobile area of operation using a kilometers radius of a set of coordinates, if possible.)

**Transmitting and Receiving Site Information for  
licenses for permanent fixed point-to-point, point-to-multipoint and fixed receiver stations**  
(Use additional pages for more sites)

**Transmitting**

Action: **A**dd/**M**odify/**D**elete site \_\_\_\_\_

If you are modifying or deleting a site, please reference the site number from your license. **Site #** \_\_\_\_\_

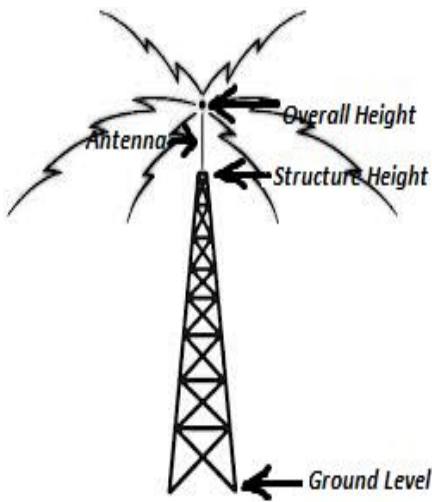
Site address (POB not acceptable): \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

FCC Antenna Structure Registration #: \_\_\_\_\_, or N/A \_\_\_\_\_

**Latitude:** (DD/MM/SS.S) \_\_\_\_/\_\_\_\_/\_\_\_\_ **Longitude:** (DDD/MM/SS.S) \_\_\_\_/\_\_\_\_/\_\_\_\_

(Coordinates must be shown in degrees, minutes, and seconds in North American datum 1983. Example: 28-32-56.9N/082-24-01.3W)



**Ground Elevation:** \_\_\_\_\_(meters) \_\_\_\_\_(feet)  
(Measure from sea level)

**Structure ht.:** \_\_\_\_\_(meters) \_\_\_\_\_(feet)  
(Measure from ground to the tip of the structure only)

**Overall ht. (structure plus antennas):** \_\_\_\_\_(meters) \_\_\_\_\_(feet)  
(Measure from ground to the tip of the highest antenna)

**Support structure type:** \_\_\_\_\_  
Examples: B (Building), GTOWER (Guyed Tower), LTOWER (Lattice Tower), TANK (Any type of tank such as gas, water, etc.)

**Antenna ht.:** \_\_\_\_\_(meters) \_\_\_\_\_(feet)  
(Measure from ground to the tip of the antenna)

**AAT for Antenna #1:** \_\_\_\_\_(meters) \_\_\_\_\_(feet)  
(APCO can calculate AAT for you at no charge)

**Please provide the Antenna Specification Sheet with Model & Manufacturer and provide the following parameters.**

(This information should be available from the manufacturer's specification sheet included with the antenna at time of purchase.)

Antenna #	Azimuth (degrees)	Beamwidth (degrees)	Polarization	Gain (dB)	Tolerance (PtP & PtMP)	Modulation (PtP & PtMP)

## Receiving

Action: Add/Modify/Delete site \_\_\_\_\_

If you are modifying or deleting a site, please reference the site number from your license. **Site #** \_\_\_\_\_

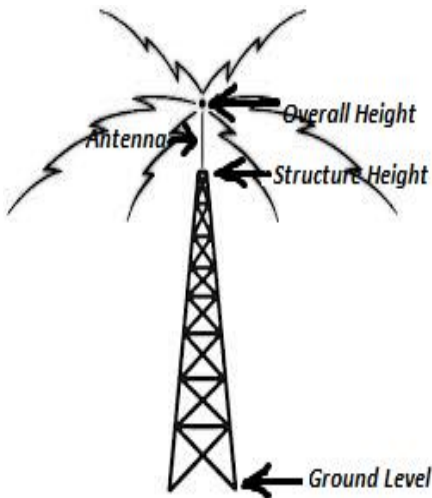
Site address (POB not acceptable): \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

FCC Antenna Structure Registration #: \_\_\_\_\_, **or** N/A \_\_\_\_\_

**Latitude:** (DD/MM/SS.S) \_\_\_\_/\_\_\_\_/\_\_\_\_ **Longitude:** (DDD/MM/SS.S) \_\_\_\_/\_\_\_\_/\_\_\_\_

**(Coordinates must be shown in degrees, minutes, and seconds in North American datum 1983. Example: 28-32-56.9N/082-24-01.3W)**



<b>Ground Elevation:</b> _____ (meters) _____ (feet) (Measure from sea level)
<b>Structure ht.:</b> _____ (meters) _____ (feet) (Measure from ground to the tip of the structure only)
<b>Overall ht. (structure plus antennas):</b> _____ (meters) _____ (feet) (Measure from ground to the tip of the highest antenna)
<b>Support structure type:</b> _____ Examples: B (Building), GTOWER (Guyed Tower), LTOWER (Lattice Tower), TANK (Any type of tank such as gas, water, etc.)
<b>Antenna ht.:</b> _____ (meters) _____ (feet) (Measure from ground to the tip of the antenna)
<b>AAT for Antenna #1:</b> _____ (meters) _____ (feet) (APCO can calculate AAT for you at no charge)

**Please provide the Antenna Specification Sheet with Model & Manufacturer and provide the following parameters.**

(This information should be available from the manufacturer's specification sheet included with the antenna at time of purchase.)

Antenna #	Antenna Center Line Height	Path Azimuth & Distance	Polarization	Gain (dB)

### Describe mobile area of operation:

(It is recommended that your agency request a mobile area of operation using a kilometers radius of a set of coordinates, if possible.)



## Granular Data Collection

Per rule section 90.1207 (e)(1) & (2) , the incumbent licensees (current geographical licensees) must provide the following information via ULS:

Applications for license in the 4940-4990 MHz band must include the following technical information.

**(1) The license for base/mobile, mobile-only or temporary fixed** (1 year or less) stations will specify, among other parameters, the following technical information:

- (i) Coordinates (base).
- (ii) Antenna height-to-tip (base and temporary fixed).
- (iii) Antenna height above average terrain (base).
- (iv) Center frequency, emission designator, and ERP.
- (v) Number of units (mobile and temporary fixed).
- (vi) Area of operation (mobile and temporary fixed), which shall be limited to the geographic area encompassing the legal jurisdiction of the licensee or, in case of a nongovernmental organization, the legal jurisdiction of the state or local governmental entity supporting the nongovernmental organization. However, applicants may define their areas of operation outside of their areas of legal jurisdiction to assist public safety operations with the permission of the jurisdiction(s) in which the mobile and/or temporary fixed stations are to be operated.

**(2) The license for permanent fixed point-to-point, point-to-multipoint and fixed receiver stations** must include, among other parameters, the following technical information:

- (i) Transmitting station coordinates.
- (ii) Frequencies and polarizations.
- (iii) For the transmitting equipment, the tolerance, effective isotropic radiated power, emission designator, and type of modulation (digital).
- (iv) For the transmitting antenna(s), the model, gain, antenna center line height(s) above ground level and ground elevation above mean sea level.
- (v) Receiving station coordinates.
- (vi) For the receiving antenna(s), the model, gain, antenna center line height(s) above ground level and ground elevation above mean sea level.



(vii) Path azimuth and distance.