

B. How to Use the FCC & FAA Databases

The FCC provides information on licenses and antenna structures in two databases: the Universal Licensing System (ULS) and the Antenna Structure Registration (ASR). Searching for a license provides a lot of information, but the most useful for us are a point of contact and information on the frequencies and power levels.

➤ **FCC: Universal Licensing System** <http://wireless2.fcc.gov/ULsApp/ULsSearch/searchLicense.jsp>

Step 1: Search. You can search for a license with the name of the licensee, the call sign, or the FCC Registration Number (FRC). If you do not have this information, you might find the call sign and licensee name using AntennaSearch.com (see below), or you can search a number of different ways, including geographically – in a radius around a specific address or coordinates.

The screenshot shows the FCC Universal Licensing System License Search page. The search form is highlighted with a red box. The search form includes a dropdown menu for 'By Call Sign', a text input field, and a 'SEARCH' button. Below the search form, there are three sections: 'Advanced Search', 'Service Specific Search', and 'Specialized Search'. The 'Service Specific Search' section is highlighted with a red box.

Step 2: See Results – Click on the call sign/lease ID to go to the details.

The screenshot shows the FCC Universal Licensing System Search Results page. The search results are displayed in a table. The first result is highlighted with a red arrow.

Call Sign/Lease ID	Name	FRN	Radio Service	Status	Expiration Date
1 WQCU741	International Brotherhood of Electrical Workers	0013410576	IG	Active	05/31/2025

Step 3a: Details: Main Page – This page contains: license expiration date, licensee name and contact, point of contact for the license itself, eligibility (“*applicant provides building and engineering services and will use radios to coordinate employees*”), radio service type, and regulatory status. The tabs at the top of the page provide more information. The Admin tab contains application information, the license itself, and other correspondence.

U.S. License
Industrial/Business Pool, Conventional License - WQCU741 - International Brotherhood of Electrical Workers HELP

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MAIN ADMIN LOCATIONS FREQUENCIES

Call Sign: WQCU741 | Radio Service: IG - Industrial/Business Pool, Conventional
 Status: Active | Auth Type: Regular

Dates
 Grant: 03/31/2015 | Expiration: 05/31/2025
 Effective: 03/31/2015 | Cancellation:

Control Points
 1: 900 7th Street NW, Washington, DC
 P: (202)207-3916

Licensee
 FRN: 0013410576 (Main Ownership Office) | Type: Corporation

Licensee
 International Brotherhood of Electrical Workers
 900 7th Street NW
 Washington, DC 20001
 ATTN: Jason Reidenbach - Chief Engineer
 P: (202)430-9495
 F: (202)289-5871
 E: none

Contact
 Federal License Management
 Eric Z Wolfe
 1784 E. 3rd Street Suite 269
 Williamsport, PA 17701-3862
 P: (570)505-3894
 F: (570)651-9032
 E: support@federal-license.com

Land Mobile Data
 Extended Implementation (Slow Growth): | Assoc. Call Signs:

Eligibility
 90.35A1 - Applicant provides building and engineering services and will use radios to coordinate employees.

Ownership and Qualifications
 Radio Service Type: Mobile
 Regulatory Status: Private Comm, Interconnected, No

Alien Ownership
 Is the applicant a foreign government or the representative of any foreign government? No
 Is the applicant an alien or the representative of an alien?
 Is the applicant a corporation organized under the laws of any foreign government?
 Is the applicant a corporation of which more than one-fifth of the capital stock is owned or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?
 Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?
 The Alien Ruling question is not answered.

Basic Qualifications
 The Applicant answered "No" to each of the [Basic Qualification](#) questions.

Step 3b: Details: Locations Page. The location tab shows the address of the antenna or the range of operation. You can click each location for information on the height of the building, the height to the tip of the antenna, and more.

Industrial/Business Pool, Conventional License - WQCU741 - International Brotherhood of Electrical Workers
Locations Summary

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MAIN ADMIN **LOCATIONS** FREQUENCIES

Call Sign: WQCU741 | Radio Service: IG - Industrial/Business Pool, Conventional
 2 Total Locations | 10 Locations per Summary Page | Locations Displayed: All | Fixed | Mobile | Itinerant | Temp Fixed | 8.1m

(C) = Special Condition (P) = Termination Pending

Location	Transmitter Address / Area of Operation	Latitude, Longitude	Status
1 - Fixed	900 7th Street NW Washington, DC	38-54-05.2 N, 077-01-33.5 W	
2 - Mobile	14.0 km radius around centerpoint	38-54-05.2 N, 077-01-33.5 W	

2 Total Locations | 10 Locations per Summary Page | Locations Displayed: All | Fixed | Mobile | Itinerant | Temp Fixed | 8.1m

Step 3c: Details: Frequencies Page. This page shows the type of device/station class, the number of units of each device, the Output Power and Maximum ERP (effective radiated power) for each frequency (in MHz). This example shows a Mobile Relay (FB2) at location 1, and 25 Mobile (MO) units at the other three frequencies.

Industrial/Business Pool, Conventional License - WQCU741 - International Brotherhood of Electrical Workers

Frequencies Summary

[New Search](#) [Refine Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#) [Map License](#)

MAIN ADMIN LOCATIONS **FREQUENCIES**

Call Sign: WQCU741 Radio Service: IG - Industrial/Business Pool, Conventional

4 Frequencies for all locations 20 Frequencies per Summary Page Filter Frequencies By Location: All Locations

Special Condition Termination Pending Define View: [General](#) | [Buildout](#) | [COSER](#) | [Emission](#) | [IRAC](#)

Frequency	Loc#	Ant#	Freq ID	Station Class	Units	Paging Rec.	Output Power	Maximum ERP
000461.52500000	2	1	3	MO	25		4.000	4.000
000461.60000000	2	1	2	MO	25		4.000	4.000
000463.60000000	1	1	1	FB2	1		25.000	40.000
000466.60000000	2	1	1	MO	25		4.000	4.000

4 Frequencies for all locations 20 Frequencies per Summary Page Filter Frequencies By Location: All Locations

Federal databases also allow us to search for more information on antenna structures/towers. A tower may have multiple transmitting antennas on it, each of which may have different licenses and different owners. However, it may provide additional contact information, and details on location. The Federal Aviation Administration (FAA) *may* also provide information on the frequencies and power levels of devices on the structure.

- **FCC: Antenna Structure Registration**
<http://wireless2.fcc.gov/UlsApp/AsrSearch/asrRegistrationSearch.jsp>

The FCC defines an antenna structure as “a structure that is constructed or used to transmit radio energy, or that is constructed or used for the primary purpose of supporting antennas to transmit and/or receive radio energy, and any antennas and other appurtenances mounted thereon.” The owner must register the structure if the structure requires notice of proposed construction to the FAA. Owners may also voluntarily register the structures. Antenna Structure Registration numbers are assigned and must be displayed near the base or perimeter fence, unless it is a historic landmark. The FCC provides a database of antenna structure registrations.

Step 1: Search. You can search with the registration number, the FAA study number, coordinates, or location.

The ASR Registration Search enables you to search for a wide range of licenses in the Antenna Structure Registration system. The Search for a Registration enables you to search on basic elements of a registration, including registration number, FAA study number, FRN, and licensee name. The Search by Location enables you to look up a registration based on the location and height of a structure. You can also use the advanced search to perform more sophisticated searches based on numerous criteria.

Step 2: Results. The results are displayed on one page. You can find information on the location, the structure (e.g. Building with Tower), height of structure, and contact information. The page also contains actions taken (e.g. Administrative Action Received) and automated letters, such as the Authorization letter.

ASR Registration Search
Registration 1206471
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Registration Detail			
Reg Number	1206471	Status	Granted
File Number	A0366530	Constructed	
EMI	No	Dismantled	
NEPA	No		
Antenna Structure			
Structure Type	BTWR - Building with Tower		
Location (in NAD83 Coordinates - Convert to NAD27)			
Lat/Long	38-53-39.4 N 077-01-00.9 W	Address	300 Indiana Aven, N. W.
City, State	Washington, DC	County	Washington
Zip	20001	Position of Tower in Array	
Center of AM Array			
Heights (meters)			
Elevation of Site Above Mean Sea Level	12.2	Overall Height Above Ground (AGL)	51.2
Overall Height Above Mean Sea Level	63.4	Overall Height Above Ground w/o Appurtenances	45.7
Painting and Lighting Specifications			
None			
FAA Notification			
FAA Study	89-AEA-1303-OE	FAA Issue Date	08/22/1989
Owner & Contact Information			
FRN	0002088631	Owner Entity Type	
Owner			
District of Columbia, Metropolitan Police Department 310 McMillan Drive, N.W. Washington, DC 20001-1032		P: (202)671-2872 F: E: sherwin.bigelow@dc.gov	
Contact			
Bigelow, Sherwin D 310 McMillan Drive, NW Washington, DC 20001-1032		P: (202)671-2872 F: E: sherwin.bigelow@dc.gov	

Federal Aviation Administration

Any construction or alteration exceeding 200 ft. above ground level needs to be filed with the Federal Aviation Administration for an Obstruction Evaluation/Airport Airspace Analysis (OE/AAA). The study determines if the structure will interfere with flight paths and if it requires particular painting/lighting.

➤ **OE/AAA** <https://oeaaa.faa.gov/oeaaa/external/searchAction.jsp?action=showSearchArchivesForm>

Step 1: Search. You can search the archived cases by study number (found on the FCC ASR details or antennasearch.com), or by city and state, which then can be sorted by latitude & longitude.

Step 2: Results. The one-page results page has the determination letter, sponsor information, latitude/longitude/location, structure height, as well as the frequencies/power levels that may be present on the tower. Frequencies are given by range (low to high) and the power level listed is the effective radiated power (ERP). Not all the information will always be provided. There may be additional information in the “Description of proposal” in the bottom left section of the results.

Overview				
Study (ASN):	2003-ACE-1209-OE	Received Date:	06/03/2003	
Prior Study:	2002-ACE-1380-OE	Entered Date:	06/03/2003	
Status:	Determined	Completion Date:	06/16/2003	
Letters:	Determination	Expiration Date:		
Supplemental Form 7460-2: Please login to add a Supplemental Form 7460-2.				
Sponsor Information		Sponsor's Representative Information		
Sponsor:	AMERICAN TOWER (#93068)	Representative:		
Attention Of:	LOTTIE THOMPSON	Attention Of:		
Address:	1101 PERMETER DRIVE, SUITE 225	Address:		
Address2:		Address2:		
City:	SCHAUMBURG	City:		
State:	IL	State:		
Postal Code:	60173	Postal Code:		
Country:	US	Country:		
Phone:	(847)240-1508	Phone:		
Fax:		Fax:		
Construction Info		Structure Summary		
Notice Of:	ALTER	Structure Type:	Antenna Tower	
Duration:	PERM (Months: 0 Days: 0)	Structure Name:		
Work Schedule:		FCC Number:	1218883	
Date Built:		FCC ASR Registration		
Structure Details		Height and Elevation		
Latitude (NAD 83):	38° 43' 14.58" N	Site Elevation:	Proposed	DNE
Longitude (NAD 83):	90° 14' 28.68" W	Structure Height:	122	0
Horizontal Datum:	NAD 83	Total Height (AMSL):	601	479
Survey Accuracy:	3C			
Marking/Lighting:	None			
Other Description:				
Name:		Frequencies		
City:	JENNINGS	Low Freq	High Freq	Unit
State:	MO	806	824	MHz
Nearest County:	St. Louis	824	849	MHz
Nearest Airport:	74MO	851	866	MHz
Distance to Structure:	12732.39 feet	869	894	MHz
On Airport:	No	896	901	MHz
Direction to Structure:	39.29°	1850	1910	MHz
Description of Location:		1920	1990	MHz
Description of Proposal:		2305	2310	MHz
		2345	2360	MHz
			2000	W

The databases provide useful information such as contact information, but are not all-encompassing. For example, the ULS does not capture the exact locations of many cellular towers because the licensees (Verizon, etc.) get their licenses for geographic areas and are not required to notify the FCC of the specific locations. Additionally, devices on federal buildings are outside of the FCC jurisdiction and the FAA only contains information on structures over 200 feet or higher (from the ground level to the top of the device). Some devices may be designed to be 199.9 feet instead.