Broadband Workshops

Access to Licensed Spectrum for Broadband

Cecilia Sulhoff
Program Analyst, Outreach
Wireless Telecommunications Bureau, FCC
Access to Licensing Information

- Finding current license holders in ULS
- **ULS Web-based searches include:**
  - Geographic area (county and state or coordinates)
  - Market area (MTA, EA, REA)
  - Spectrum band
  - Licensee name
  - Site-based antenna structure registration search
- **Entire database can be downloaded**
Access to Licensing Information

Access to Licensing Information

www.fcc.gov

Headlines

7/16/09
Chairman Genachowski Announces Wireless Bureau Senior Staff.
News Release: Word | Acrobat

7/15/09
Commissioner McDowell’s Remarks at the Phoenix Center Workshop: Understanding Broadband Metrics: The Broadband Adoption Index.
News Release: Word | Acrobat

7/14/09
Harvard’s Berkman Center to Conduct Independent Review of Broadband Studies to Assist FCC.
News Release: Word | Acrobat

7/13/09
Chairman Genachowski Announces Managing Director and General Counsel.
News Release: Word | Acrobat

7/3/09
Genachowski Statement: Word | Acrobat
Copps Statement: Word | Acrobat

7/3/09
Genachowski Statement: Word | Acrobat
Copps Statement: Word | Acrobat

7/2/09
The FCC and Broadband: The Next 230 Days.
Commission Meeting Presentation: Acrobat

7/1/09
Remarks of FCC Chairman Genachowski at Broadband Event, Erie, Pennsylvania.
Word | Acrobat

6/30/09
Remarks of Chairman Julius Genachowski to the Staff of the Federal Communications Commission.
Word | Acrobat

6/30/09
Revised Sunshine Notice for Thursday, July 2, 2009 FCC Open Commission Meeting.
Public Notice: Word | Acrobat
Access to Licensing Information
Finding current license holders in ULS

FCC Licensing Systems

Universal Licensing System (ULS)
The Universal Licensing System allows electronic filing of applications processed by the Commission. The ULS allows you to indicate the application purpose and radio service code and guides you through the filing process until the application is submitted. The ULS also provides the ability to search for applications by providing information such as a file number, applicant name or application purpose or to search for licenses by providing information such as a call sign, licensee name or radio service. Other features of the ULS include the ability to download, in pipe delimited format, application and license data as well as the ability to use mapping software to visually display the specific location or overall geographic area of wireless licenses.

Broadcast Radio and Television Electronic Filing System (CDBS)
CDBS is Mass Media Bureau's Internet based system which permits electronic filing of broadcast radio and television application forms with the FCC. Public Internet access to these electronic filings as well as station, application, and authorization information is available through the CDBS Public Access Link.

Cable Operations and Licensing System (COALS)
COALS is the Media Bureau's Internet based system which permits electronic filing of Cable Operator and Multichannel Video Programming Distributor (MVPD) forms with the FCC. The Commission allows filers to obtain COALS system log-ins, submit cable community registrations and make operator information changes (see 47 CFR 76.1610). The public can also conduct searches of the Cable and CARS databases.

International Bureau Electronic Filing System (MyIBFS)
MyIBFS is an internet-based system which allows for electronic filing of the following types of applications and forms: space station, earth station, Section 214, cable landing license, accounting rate change, recognized operating agency, international signaling point code (ISPC), data network identification code (DNIC), foreign carrier affiliation notification filings, and milestone/bond filings. MyIBFS also provides users with a whole host of query and reporting options. Our goal is to improve the speed and quality of service to our applicants, researchers and the general public.

OET Experimental Licensing System Electronic Filing
This website allows the public to electronically file Forms 442, 405, 702, 703, requests for Special Temporary Authority (STA) and include all necessary exhibits. In addition, several reporting options are also available.
Access to Licensing Information
Finding current license holders in ULS

Universal Licensing System

License Search

The ULS License Search enables you to search for a wide range of licenses in the Universal Licensing System. The License Search here provides access to the most basic attributes of a license. You can also specify more attributes combinations with the Advanced Search and search within services like Amateur using service-specific criteria. Please be aware that some combinations of search criteria may result in a longer wait.

Advanced Search

Want to search for licenses of any radio service code based on combinations of general license attributes?

Advanced License Search

Advanced License Search includes:
- Licensee State, ZIP, and Name
- Dates (Grant, Last Action, etc)
- License Status
- Radio Service Code
- And more.

Service Specific Search

Want to search for licenses within a service using criteria relevant to that specific service?

- Aircraft
- Amateur
- Vanity Cell Signs, Operator Class, and more.
- Commercial/Restricted Permits
- Operator Class, COLEM, and more.
- GMRS
- Ship
- MMSI#, Ship Name, and more.

Specialized Search

Want to use customized criteria to search for a license within all relevant services?

- Market Based
  Search by auction number, markets, channel block and more.
- Site Based
  Search by station class, frequency, Antenna Structure Registration (ASR) number, and more.
- Facility ID
  Search by Facility Identification Number for Broadcast Auxiliary Licenses.
- Geographic
  Search by coordinates, county/state, address and frequency information.
- Buildout Deadline
  Search by Buildout Deadline information, auction, radio services, and more.
- Lease Specific
  Search by Lease information.
Access to Licensing Information
Finding current license holders in ULS

Universal Licensing System

Advanced License Search

Call Sign & Radio Services
- Call Sign
- Service Group
  - Match all radio services within this group
  - Match only the following radio service(s):
    - AA - Aviation Auxiliary Group
    - AB - Aural Microwave Booster
    - AC - Aircraft
    - AF - Aeronautical and Fixed
    - AI - Aural Intensity Relay

Licensee
- Name
- FRN
- City
- State
- ZIP Code

* Please be aware that some combinations of search criteria may result in a longer wait.

RESET GEOSSEARCH SEARCH
Access to Licensing Information
Finding current license holders in ULS

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>ZIP Code</th>
</tr>
</thead>
</table>

- T: Matches licensee mailing address, not transmit locations.

**License Detail**

<table>
<thead>
<tr>
<th>Status</th>
<th>All</th>
<th>Active</th>
<th>Expired</th>
<th>Canceled</th>
<th>Terminated</th>
<th>Termination Pending</th>
</tr>
</thead>
</table>

| Authorization Type | All | Regular | STA | Developmental | Demonstration |

**Date Information**

<table>
<thead>
<tr>
<th>Date Type</th>
<th>Select a date type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Select a fixed date range</td>
</tr>
<tr>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>(Date Format: MM/DD/YYYY)</td>
<td></td>
</tr>
</tbody>
</table>

**Frequencies**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>All Frequencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exact Frequency</td>
<td>MHz</td>
</tr>
<tr>
<td>Range Frequency</td>
<td>MHz to MHz</td>
</tr>
</tbody>
</table>

**Customize Your Results**

- 10 matches per page sorted by Call Sign in ascending order
- Exact Matches Only
- Exclude Leases

*Please be aware that some combinations of search criteria may result in a longer wait.*
Access to Licensing Information
Finding current license holders in ULS

Geographic Search

Specified Search
The following search criteria will be applied in addition to any information specified below.
- **Authorization Type**: Regular
- **Status**: Active
- **Frequency Upper Bound**: 690
- **Frequency Assigned**: 769

Modify Search Criteria

Geographic Search Criteria
- Include Nationwide Area of Operations
- Include Continental Area of Operations
- Include Licenses with a Mobile Area of Operations
- Exclude Leases

State/County
You may search on state, county, or both. Use the state list to filter the list of counties. Please be aware that searching on multiple states or counties may result in slower search results.

- **State(s)**: Louisiana, Maine, Maryland, Massachusetts

- **County(s)**: MD-HOWARD, MD-KENT, MD-MONTGOMERY, MD-PRINCE GEORGE'S

Address
- **Street**
- **City**
- **State**: All
Access to Licensing Information
Finding current license holders in ULS

- **State/County**
  - You may search on state, county, or both. Use the state list to filter the list of counties. Please be aware that searching on multiple states or counties may result in slower search results.
  - State(s): Louisiana, Maine, Maryland, Massachusetts
  - County(s): MD-KENT, MD-MONTGOMERY, MD-PRINCE GEORGE'S, MD-QUEEN ANNE'S

- **Address**
  - Street: 
  - City: 
  - State: All
  - ZIP Code: 
  - Radius: Kilometers

- **Coordinates**
  - This search is based on NAD 83 coordinates (convert from NAD 27).
  - Latitude: 
  - Longitude: 
  - Radius: Kilometers

- **Frequencies**
  - **All Frequencies**
  - **Exact**: MHz
  - **Range**: MHz to MHz

[SEARCH button]
### Access to Licensing Information

**Finding current license holders in ULS**

#### Universal Licensing System

**License Search**

**Search Results**

- **Specified Search**
  - State: Maryland
  - County: MONTGOMERY
  - Authorization Type: Regular
  - Status: Active
  - Frequency Upper Band: > 698
  - Frequency Assigned: ≤ 769

  **Matches 1 - 6 (of 6)**

<table>
<thead>
<tr>
<th>Call Sign/Lease ID</th>
<th>Name</th>
<th>FRN</th>
<th>Radio Service</th>
<th>Status</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPR329</td>
<td>Dominion 700, Inc.</td>
<td>0014540581</td>
<td>WX</td>
<td>Active</td>
<td>06/13/2019</td>
</tr>
<tr>
<td>2 PA</td>
<td>AT&amp;T Mobility II LLC</td>
<td>0014991233</td>
<td>WZ</td>
<td>Active</td>
<td>06/13/2019</td>
</tr>
<tr>
<td>3 WQI0690</td>
<td>Celico Partnership</td>
<td>0002590673</td>
<td>WU</td>
<td>Active</td>
<td>06/13/2019</td>
</tr>
<tr>
<td>4 WQI0636</td>
<td>Celico Partnership</td>
<td>0002590673</td>
<td>WY</td>
<td>Active</td>
<td>06/13/2019</td>
</tr>
<tr>
<td>5 WQI0429</td>
<td>AT&amp;T Mobility Spectrum LLC</td>
<td>0014990726</td>
<td>WY</td>
<td>Active</td>
<td>06/13/2019</td>
</tr>
<tr>
<td>6 WQI0528</td>
<td>Manifest Wireless L.L.C. (t/f/a Frontier Wireless LLC)</td>
<td>0017173121</td>
<td>WY</td>
<td>Active</td>
<td>06/13/2019</td>
</tr>
</tbody>
</table>

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11
**Access to Licensing Information**

**Finding current license holders in ULS**

### 700 MHz Guard Band License - WPRR329 - Dominion 700, Inc.

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call Sign</td>
<td>WPRR329</td>
</tr>
<tr>
<td>Status</td>
<td>Active</td>
</tr>
<tr>
<td>Market</td>
<td>MEA005</td>
</tr>
<tr>
<td>Submarket</td>
<td>0</td>
</tr>
<tr>
<td>Channel Block</td>
<td>A</td>
</tr>
<tr>
<td>Associated Frequencies (MHz)</td>
<td>000757.00000000 - 000759.00000000 - 000787.00000000 - 000788.00000000</td>
</tr>
<tr>
<td>Grant</td>
<td>12/21/2000</td>
</tr>
<tr>
<td>Effective</td>
<td>03/07/2009</td>
</tr>
<tr>
<td>Expiration</td>
<td>06/13/2019</td>
</tr>
<tr>
<td>Buildout Deadlines</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>06/13/2019</td>
</tr>
<tr>
<td>Notification Dates</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td></td>
</tr>
<tr>
<td>Licensee</td>
<td></td>
</tr>
<tr>
<td>FRN</td>
<td>0004645501 (view Ownership Filing)</td>
</tr>
<tr>
<td>Type</td>
<td>Corporation</td>
</tr>
<tr>
<td>Corporation</td>
<td>Dominion 700, Inc. 201 N. Union Street Alexandria, VA 22314</td>
</tr>
<tr>
<td>Contact</td>
<td>Lampert, O'Connor &amp; Johnston, P.C. 1776 K Street NW, Suite 700 Washington, DC 20006 ATTN: Ashton Johnston</td>
</tr>
<tr>
<td>Phone</td>
<td>P:(703)519-3000 F:(703)519-3904</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:Johnston@lojlaw.com">Johnston@lojlaw.com</a></td>
</tr>
</tbody>
</table>
# Access to Licensing Information

**Finding current license holders in ULS**

## Administration

<table>
<thead>
<tr>
<th>Call Sign</th>
<th>Radio Service</th>
<th>WX - 700 MHz Guard Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPPR325</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Applications

<table>
<thead>
<tr>
<th>Receipt Date</th>
<th>File Number and Type</th>
<th>Status</th>
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<tbody>
<tr>
<td>03/06/2009</td>
<td>0003762059 AU - Administrative Update</td>
<td>Granted</td>
</tr>
<tr>
<td>10/10/2000</td>
<td>0000325677 NE - New</td>
<td>Granted</td>
</tr>
</tbody>
</table>

## Automated Letters and Authorizations

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/26/2007</td>
<td>Authorization - Licensee</td>
</tr>
</tbody>
</table>

## Comments

- **02/26/2009**: Expiration date and construction deadline(s) extended by 116 days pursuant to FCC 09-11 (Feb. 20, 2009.)
- **10/23/2007**: The spectrum for channel block A was changed. In addition, the license expiration date for this license was extended until February 17, 2019. See Service Rules for the 698-746, 747-752 and 777-792 MHz Bands, Report and Order and Further Notice of Proposed Rulemaking, FCC 07-72 (2007).

## History

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03/07/2009</td>
<td>Administrative Update Applied</td>
</tr>
<tr>
<td>03/06/2009</td>
<td>Application receipt email sent: CORES email</td>
</tr>
<tr>
<td>10/26/2007</td>
<td>Authorization Printed</td>
</tr>
</tbody>
</table>

## Special Conditions

Refer to Locations and Frequencies Tabs for special conditions at those levels.

Operation of the facilities authorized herein, are subject to the condition that harmful interference may not be caused to, but must be accepted from UHF TV transmitters in Canada and Mexico as identified in existing and any future agreements with those countries.

If the facilities authorized herein are used to provide broadcast-type operations on or before January 1, 2006, the licensee is required to seek renewal of this license at the end of the eight-year term following commencement of such broadcast operations.

## Attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Data Entered</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Access to Licensing Information
Finding current license holders in ULS

### Market

<table>
<thead>
<tr>
<th>Call Sign</th>
<th>WPRR329</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market</td>
<td>MEA005 - Washington</td>
</tr>
<tr>
<td>Submarket</td>
<td>0</td>
</tr>
<tr>
<td>Auction</td>
<td>33 - 700 GrdBnd</td>
</tr>
<tr>
<td>Radio Service</td>
<td>WX - 700 MHz Guard Band</td>
</tr>
<tr>
<td>Channel Block</td>
<td>A</td>
</tr>
<tr>
<td>Associated Frequencies (MHz)</td>
<td>000757.000000000 - 000758.000000000 000757.000000000 - 000758.000000000</td>
</tr>
</tbody>
</table>

License WPRR329 has not been partitioned or disaggregated.
Access to Licensing Information
Finding current license holders in ULS

Wireless Telecommunications Bureau

The Wireless Telecommunications Bureau (WTB) handles nearly all FCC domestic wireless telecommunications programs, policies, and outreach initiatives.

All Services | About the WTB

Wireless Headlines

7/15/2008
NEWS RELEASE
Chairman Genachowski Announces Wireless Bureau Senior Staff

7/15/2008
LETTER (DA 08-1541)
Mr. William K. Keane, Esq. - Spectrum Tracking Systems, Inc.
Dismissed Spectrum Tracking Systems, Inc. request for an extension of time.

7/15/2008
PROTECTIVE ORDER (OA 08-1556)
Applications of American Samoa Telecommunications Authority (Auction 78), Application of AST Telecom, LLC (Auction 78), and Application of American Samoa Telecommunications Authority (Auction 71)

7/13/2008
PUBLIC NOTICE (DA 08-1521)
WTB Grants Lower 700 MHz Band Licenses
Access to Licensing Information
Finding current license holders in ULS

http://wireless.fcc.gov/antenna
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.

Looking for an ASR Application? Use the ASR Application Search
Access to Licensing Information
Finding current license holders in ULS

Universal Licensing System

License Search

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Advanced Search

Want to search for licenses of any radio service code based on combinations of general license attributes?

Advanced License Search includes:
- Licensee State, ZIP, and Name
- Dates (Grant, Last Action, etc.)
- License Status
- Radio Service Code
- And more.

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Want to search for licenses within a service using criteria relevant to that specific service?

- Aircraft
- Amateur
- Vanity Call Signs, Operator Class, and more.
- Commercial/Restricted Permits
- Operator Class, COLEM, and more.
- GMRS
- Ship
- MMSI#, Ship Name, and more.

Specialized Search

Want to use customized criteria to search for a license within all relevant services?

- Market Based
  Search by auction number, market, channel block and more.
- Site Based
  Search by station class, frequency, Antenna Structure Registration (ASR) number, and more.
- Facility ID
  Search by Facility Identification Number for Broadcast Auxiliary Licenses.
- Geographic
  Search by coordinates, county/state, address and frequency information.
- Buildout Deadline
  Search by Buildout Deadline information, auction, radio services, and more.
- Lease Specific
  Search by Lease information.
Access to Licensing Information
Finding a current license holder

Universal Licensing System

License Search
Site License Search
License Search Home

Search Scope: The Site License Search will match any Site license.

Site Based

- Service Group
  - All

- Radio Service Code
  - AA - Aviation Auxiliary Group
  - AB - Aural Microwave Booster
  - AF - Aeronautical and Fixed
  - AI - Aural Intercom Relay

- Station Class
  - AOX - Operational Fixed
  - APC - ALASKA PUBLIC
  - APX - ALASKA PRIVATE

- Antenna Structure Registration (ASR) Number
  - 1012365

Frequencies

- Frequency
  - Exact MHz
  - Range MHz to MHz

Licensee

Name
Access to Licensing Information
Finding current license holders in ULS

Universal Licensing System

License Search

Search Results

Specified Search

ASR Number like 1012365

Matches 1-5 (of 5)

<table>
<thead>
<tr>
<th>Call Sign/Lease ID</th>
<th>Name</th>
<th>FRN</th>
<th>Radio Service</th>
<th>Status</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WNIT244G</td>
<td>0001361135</td>
<td>MG</td>
<td>Active</td>
<td>05/15/2010</td>
</tr>
<tr>
<td>2</td>
<td>WPQ532</td>
<td>0004855151</td>
<td>GP</td>
<td>Active</td>
<td>05/22/2015</td>
</tr>
<tr>
<td>3</td>
<td>WPDE343</td>
<td>0004855151</td>
<td>YP</td>
<td>Active</td>
<td>05/30/2015</td>
</tr>
<tr>
<td>4</td>
<td>WPQF833</td>
<td>0004855151</td>
<td>YF</td>
<td>Active</td>
<td>06/28/2015</td>
</tr>
<tr>
<td>5</td>
<td>WQAC205</td>
<td>0001361135</td>
<td>YO</td>
<td>Active</td>
<td>05/19/2014</td>
</tr>
</tbody>
</table>

ULS Help
ULS Glossary - FAQ - Online Help - Technical Support - Licensing Support
ULS Online Systems
CORES - ULS Online Filing - License Search - Application Search - Archive License Search
About ULS
Privacy Statement - About ULS - ULS Home
### Access to Licensing Information

**Finding current license holders in ULS**

---

**Universal Licensing System**

**ULS License**

**Other Indust/Land Transp. 806-821/851-866 MHz, Trunked License – WQAF205 – Duke Energy Carolinas, LLC**

- **Call Sign**: WQAF205
- **Radio Service**: VO – Other Indust/Land Transp. 806-821/851-866 MHz, Trunked
- **Status**: Active
- **Auth Type**: Regular
- **Dates**
  - **Grant**: 05/19/2004
  - **Effective**: 05/18/2009
  - **Expiration**: 05/19/2014
  - **Cancellation**: 
- **Control Points**
  - 1: 134 E Fourth, HAMILTON, Cincinnati, OH
  - P: (800)262-3000

<table>
<thead>
<tr>
<th>Licensee</th>
<th>FRN</th>
<th>Type</th>
<th>Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duke Energy Carolinas, LLC</td>
<td>0001961150</td>
<td>(View Ownership Filing)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact</th>
<th>P: (704)392-3360</th>
<th>E: <a href="mailto:sdcolema@duke-energy.com">sdcolema@duke-energy.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Duke Energy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sherry L Pocsatko</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO Box 1008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>401 South College Street</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charlotte, NC 28201-1008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATTN: Telecommunications Div., CS03A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**NEW SEARCH**

**Refine Search**

**Return to Results**

**Printable Page**

**Reference Copy**

**Map License**
## Access to Licensing Information

**Finding current license holders in ULS**

### Universal Licensing System

**FCC > WTB > ULS > Online Systems > License Search**

Other Indus/Land Transp. 906-621/651-666 MHz, Trunked License - WQAF205 - Duke Energy Carolinas, LLC

### Frequencies Summary

- **Call Sign**: WQAF205
- **Radio Service**: YO - Other Indus/Land Transp. 806-821/851-866 MHz, Trunked

#### Frequencies for all locations

- **20 Frequencies per Summary Page**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Loc#</th>
<th>Ant#</th>
<th>Freq</th>
<th>Station Class</th>
<th>Units</th>
<th>Paging Rec.</th>
<th>Output Power</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>000809.88750000</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>MD</td>
<td>3059</td>
<td>35.000</td>
<td>35.000</td>
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- **10 Frequencies for all locations**
- **20 Frequencies per Summary Page**

### Filter Frequencies By Location:

- **All Locations**
- **GO**
## Frequencies Summary

20 Frequencies per Summary Page

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**Filter Frequencies By Location:**
- All Locations

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**Other Indus/Land Transp. 806-821/851-866 MHz, Trunked License - WQAF205 - Duke Energy Carolinas, LLC**

**Access to Licensing Information**

**Finding current license holders in ULS**

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**Universal Licensing System**
Conclusion

Thank you!

Cecilia.Sulhoff@fcc.gov