To accommodate all attendees, real-time closed captions will be present during this presentation. This is a new feature we are testing out to improve webinar accessibility for all. We understand it is a significant change and appreciate your patience. We apologize in advance for any transcription errors or distractions. Thank you for your support.
Housekeeping

- Audio is available through your computer’s speakers.
- The audience will remain on mute throughout the presentation.
- Enter questions at any time using the “Questions” box.
- If your audio or slides freeze, restart the webinar.
- A copy of the slide deck is in the “Handouts” section of webinar panel.
Today’s Speaker

• John Putman

Communications Specialist | High Cost
The High Cost program ensures universal availability of essential telecommunications services in rural America.

- **Legacy Voice Funds**
  - Subsidize voice service to provide universal access to basic phone lines
  - Calculate support based on carrier costs
  - Provide support to traditional rural telephone companies
  - Are subject to USAC audit process

- **Modernized Broadband Funds (Connect America Fund)**
  - Subsidize broadband to support advanced communications networks and high-speed Internet access
  - Use cost models and competitive bidding to give carriers fixed payments to deploy broadband with minimum speeds to a defined number of rural locations by interim and final milestone deadlines
  - Provide support to traditional rural phone companies, rural electric cooperatives, cable operators, wireless operators, wireless Internet service providers, satellite providers
  - Are subject to CAF compliance framework to ensure required deployment
USAC closely monitors carrier compliance with broadband deployment obligations to ensure that carriers are using CAF support to build out high-speed Internet access that meets minimum speed and latency standards to required location counts by relevant deployment milestone deadlines in rural areas eligible for funding.

Compliance process consists of several steps:

- **HUBB Portal: Tracking Broadband Deployment**
  - Verification Reviews: Confirming Broadband Deployment
  - Network Performance Testing: Measuring Speed and Latency

Carriers may also be subject to audit site visits.

This compliance framework safeguards Connect America Fund accountability, transparency and integrity.
Carriers participating in modernized funds with defined fixed broadband build-out obligations must file deployment data annually with the HUBB.

Annual HUBB filing deadline is March 1 for carriers to report broadband deployed with CAF support in the prior calendar year or certify “no locations to upload” for the year.

HUBB collects: geographic coordinates (latitude/longitude) of locations where carriers are deploying broadband with CAF support, speeds available (speed tier) and deployment dates.

HUBB performs automated, real-time validation of data and only accepts locations that pass all checks:

- Checks that lat/long of a reported location fall within area eligible for funding
- Checks that the location is not a duplicate of one already submitted
- Checks that date of deployment falls within fund timeline
- HUBB tracks carrier progress toward meeting interim and final deployment milestones.

Accurate geolocation data is key to filing successfully in the HUBB

- See USAC guide on geolocation best practices
HUBB Portal: CAF Map and BDC

- FCC expects HUBB data to be consistent with Broadband Data Collection (BDC) data and the Broadband Serviceable Location Fabric
  - Compliance review process will cross-check fixed broadband deployment data submitted to the HUBB and BDC databases, and will require carriers to explain and address identified discrepancies

- HUBB dataset is the foundation for the CAF Map
  - Public map that displays geographic areas eligible for CAF support and specific fixed locations where carriers have reported deployment in the HUBB
  - CAF Map is only as good as the data that carriers file in the HUBB so accuracy matters!
Verification Reviews: Confirming Broadband Deployment

All carriers participating in CAF programs with defined broadband build-out obligations are subject to verification reviews to confirm reported deployment. Reviews fall into three categories:

• Reviews tied to mandatory annual deployment milestones (interim and final) that begin following the annual March 1 HUBB filing deadline

• Reviews conducted at the request of carriers that complete deployment ahead of required milestones (meet optional milestones) and are seeking to reduce their Letters of Credit (LOC) values

• Reviews conducted as part of the FCC Rural Broadband Accountability Plan (RBAP)
  • Can occur before a required milestone even if a carrier does not request a review

Carriers may also be subject to site visit audits.

Carriers found to have missed deployment milestones face increased reporting obligations and potential withholding/recovery of support.
Verification Reviews: Confirming Broadband Deployment

The goal of the verification review process is to confirm that a carrier deployed broadband service meeting the FCC’s performance standards to a qualifying number of locations by the relevant deployment milestone deadline. The review seeks to confirm that (among other things):

- The structure at the reported location is eligible for CAF support
- The reported service address accurately corresponds with the reported lat/long coordinates
- The upload and download speeds available are at or above the speeds the carrier must deliver
- The carrier deployed service at the required speeds in time to meet the deployment milestone
- The actual number of units or dwellings at the location accurately ties back to the reported number of units or dwellings for the location record

Carriers must supply documentation to serve as evidence of deployment to all locations selected for verification review

- Examples of acceptable documentation include: customer bills, screen shots from service availability and provisioning tools, letters of certification by outside engineers, lease agreements for broadband equipment/facilities
**Network Performance Testing: Measuring Speed and Latency**

- Framework ensures that CAF-supported broadband service meets basic performance measures standards.
- Carriers must conduct one week of speed and latency testing at a random sample of CAF-supported locations in the HUBB that have active subscribers in each quarter of the year, and submit and certify all test results for all selected locations (unless subject to FCC waiver) for all four quarters in the PMM by the following July 1.
  - Coming soon: FCC will require carriers to report test results within two weeks of the end of the quarter (timing of this new mandate is still TBD).
- At least 80 percent of speed measurements must be at 80 percent of required speeds and 95 percent of low-latency measurements must fall at or below 100 milliseconds round-trip time.
  - FCC considers failure to meet speed and latency standards as a failure to deploy and may withhold support.
- Before official testing begins, carriers must conduct a year of quarterly “pre-testing”.
  - Carriers must submit and certify all test results for all selected locations (unless subject to FCC waiver) in the PMM within one week of the end of the quarter, but will not face withholding of support for failing to meet speed and latency standards.
  - USAC provides quarterly compliance reports during pre-testing – and to carriers that file and certify test data within one week of the end of the quarter during official testing - to help carriers track their progress.
HUBB Portal: Tracking Broadband Deployment
Carriers in these funds (and ACS) have until March 1, 2024, to file and certify data for locations deployed in 2023 or certify “no locations to upload”:

- Alternative Connect America Cost Model (ACAM)
- Revised ACAM
- ACAM II
- Connect America Fund Broadband Loop Support (CAF BLS)
  - HUBB will only accept CAF BLS locations deployed since May 25, 2016
- Connect America Fund (CAF) Phase II Auction (CAF II Auction)
- Rural Digital Opportunity Fund (RDOF)
  - RDOF carriers must submit any locations deployed since July 1, 2019
- Rural Broadband Experiments (RBE)
- Alaska Plan (other than carriers with individualized performance plans)
  - Alaska Plan carriers must also submit node and link data for middle-mile fiber and microwave networks
- Bringing Puerto Rico Together (Uniendo a Puerto Rico) and Connect USVI Fund (PR/USVI) Stage 2 Fixed Support
Carriers in these funds have until March 1, 2024, to file data for locations deployed in 2023 or certify “no locations to upload”:

- Connect America Fund-Broadband Loop Support (CAF BLS)
  - All CAF BLS carriers must file in the HUBB, including CAF BLS carriers that were exempt in the past because they had already built out 10/1 Mbps broadband to at least 80 percent of their study area
  - The HUBB will not accept any CAF BLS locations deployed before May 25, 2016
    - CAF BLS carriers that were fully deployed to all locations in their study area with 25/3 Mbps broadband before that date, or became fully deployed after that date, have satisfied their buildout obligation
      - USAC and the FCC will soon announce a process for these carriers to certify to full deployment
    - CAF BLS carriers must still file any locations deployed in 2023 or certify “no locations to upload”
- Alaska Plan (other than carriers with individualized performance plans)
  - Alaska Plan carriers with individualized performance plans requiring them only to maintain service at existing levels do not have defined deployment obligations and do not have to file in the HUBB
    - USAC encourages these carriers to certify annually that they did not deploy service during the previous year
    - If these carriers do deploy service to new locations or upgrade service to existing locations, they should report those locations in the HUBB
  - In addition to filing last-mile locations, Alaska Plan wireline carriers must submit node and link data showing any new deployments or upgrades made to the middle-mile fiber and microwave nodes or networks needed to deliver CAF-supported broadband
Carriers in the following funds have mandatory deployment milestones at end of 2023 and may face verification reviews in 2024:

- **Original ACAM** carriers face an interim 70 percent milestone for deploying 10/1 Mbps broadband by end of 2023
- **Revised ACAM** carriers face an interim 70 percent milestone for deploying 10/1 Mbps broadband and an interim 50 percent milestone for deploying 25/3 Mbps broadband, both by end of 2023
- **ACAM II** carriers face an interim 50 percent milestone for deploying 25/3 Mbps broadband by end of 2023, and must meet similar deployment obligations on Tribal lands
- **CAF II Auction** carriers face an interim 60 percent milestone for required deployments by end of 2023
- **CAF BLS** carriers face one final, five-year milestone for deploying 25/3 Mbps broadband by end of 2023

**RDOF** and **PR/USVI** carriers can take advantage of an optional 20 percent deployment milestone by the end of the second year of support (which is 2023 for carriers authorized in 2021) to reduce LOC values

**RBE** carriers face rolling deployment milestones
HUBB Portal: Certifying Broadband Deployment

• Carriers with 2023 deployment milestones (interim and final) must complete a separate milestone certification – in addition to the general certification - as part of the annual HUBB filing
  • This includes separate milestone certifications for separate deployment obligations by speed tier
  • USAC and the FCC will soon announce a process for CAF BLS carriers to certify to full deployment for the fund’s final, five-year milestone
  • Carriers that miss a deployment milestone must inform the FCC, USAC and relevant state and Tribal governments within 10 days of the milestone deadline (by early January for year-end milestone deadline)
  • Carriers may face verification reviews of their 2023 milestones in 2024 to confirm deployment to a random sample of reported locations
    • Carriers found to have missed deployment milestones face increased reporting obligations and potential withholding/recovery of support
HUBB Portal: Certifying Broadband Deployment (Cont.)

• Carriers that do not deploy locations in 2023 must certify “no locations to upload” by March 1, 2024
  • **New this year:** “No locations to upload” certification functionality only available between Jan. 1-March 1, 2024
  • USAC has reverted all “No locations to upload” certifications for carriers that completed this certification for 2023 before the end of the year
    • These carriers must complete this certification again between Jan. 1-March 1, 2024.

• Carriers that do deploy in 2023 can file and certify locations throughout the year

• **New this year:** All carriers must complete a new annual certification to confirm that their filing activity for 2023 is complete, or that they have no locations to upload for the year, with an additional certification between Jan. 1-March 1, 2024
  • Functionality now live for all funds other than CAF BLS - coming soon for CAF BLS carriers
The HUBB is accessible through USAC’s E-File system. Please see USAC’s Multifactor Authentication Troubleshooting Steps for help logging into E-File. Users must have one of the following HUBB entitlements to access the system:

- **HUBB SPO (Service Provider Officer)**: allows the user to enter and certify data.
- **HUBB SPU (Service Provider User)**: allows the user to enter but not certify data (typically provided to users inside the carrier).
- **HUBB SPA (Service Provider Agent)**: allows the user to enter but not certify data (typically provided to agents outside the carrier).

The individual listed as the company officer on the carrier’s Form 498 can assign these entitlements. See USAC’s 498 ID webpage for help registering for a Form 498 ID, also called a Service Provider ID (SPIN).
HUBB Data Filing Process

- **Compile Data**: Use templates to compile location data, using Geolocation best practices.
- **Enter Data**: Upload template with location data to the HUBB.
- **Validate Data**: Location data validated by HUBB – address any errors or warnings.
- **Certify Data**: Certifying Officer certifies location data in the HUBB.
- **Annual Certification or No Locations**: Certifying Officer completes New Annual Certification that all deployments are reported, or No Locations were deployed for the year.
- **Certify Milestone**: Certifying Officer certifies milestone in the HUBB (if applicable).
## HUBB Data Fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Example / Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Area Code (SAC) *</td>
<td>6-digit study area code</td>
<td>579999</td>
</tr>
<tr>
<td>Latitude *</td>
<td>Latitude of the location</td>
<td>6 decimal places = (35.509220)</td>
</tr>
<tr>
<td>Longitude *</td>
<td>Longitude of the location</td>
<td>6 decimal places = (-98.433700)</td>
</tr>
<tr>
<td>Date of Deployment *</td>
<td>Date the carrier made service available</td>
<td>08/04/2022</td>
</tr>
<tr>
<td>Download / Upload Speed Tier *</td>
<td>ID representing the speed available</td>
<td>4 = (25mbps / 3mbps)</td>
</tr>
<tr>
<td>Address *</td>
<td>Location Street Number and Name</td>
<td>700 12&lt;sup&gt;th&lt;/sup&gt; Street</td>
</tr>
<tr>
<td>City *</td>
<td>Location City Name</td>
<td>Washington</td>
</tr>
<tr>
<td>State *</td>
<td>2-Letter State Abbreviation</td>
<td>DC</td>
</tr>
<tr>
<td>ZIP Code *</td>
<td>Location Zip Code</td>
<td>20005</td>
</tr>
<tr>
<td># of Units *</td>
<td>Number of units at location</td>
<td>2</td>
</tr>
<tr>
<td>HUBB Location ID</td>
<td>ID Assigned by System</td>
<td>12345</td>
</tr>
<tr>
<td>Carrier Location ID</td>
<td>ID Assigned by the Carrier</td>
<td>12345</td>
</tr>
<tr>
<td>Technology ID #</td>
<td>Technology Type ID</td>
<td>Required for CAF II Auction, RDOF</td>
</tr>
<tr>
<td>Other Technology</td>
<td>Description of Other Technology</td>
<td>Text Description</td>
</tr>
<tr>
<td>Latency ID #</td>
<td>High or Low</td>
<td>Required for CAF II Auction, RDOF, Alaska</td>
</tr>
</tbody>
</table>

* Required Field; # Required for Specific Funds
HUBB New Locations CSV Template

Fields with an Asterisk (*) are Required

**Technology Field**
- Required for CAF 2 Auction and Alaska Plan
- Optional for other programs
- Values
  - 1 – DSL
  - 2 – Cable
  - 3 – Fiber
  - 4 – Wireless
  - 5 – Low Earth Orbit Satellite
  - 6 – Geostationary Satellite
  - 7 – Other Technology (Description Required)

**Latency Field**
- Required for CAF 2 Auction and Alaska Plan
- Optional for other programs
- Values
  - 1 – High Latency
  - 2 – Low Latency

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Area Code</td>
<td>Latitude</td>
<td>Longitude</td>
<td>Date of Deployment</td>
<td>Download/Upload Speed Tier</td>
<td>Address</td>
<td>City</td>
<td>State</td>
<td>Zip Code</td>
<td># of Units</td>
<td>Carrier Location ID</td>
<td>Technology</td>
<td>Other Technology</td>
<td>Latency</td>
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<td></td>
<td></td>
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</table>
## HUBB Speed Tier IDs Revised

<table>
<thead>
<tr>
<th>Speed Tier ID</th>
<th>Download Speed</th>
<th>Upload Speed</th>
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<tbody>
<tr>
<td>1</td>
<td>1 Mbps</td>
<td>256 Kbps</td>
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<tr>
<td>2</td>
<td>4 Mbps</td>
<td>1 Mbps</td>
</tr>
<tr>
<td>3</td>
<td>10 Mbps</td>
<td>1 Mbps</td>
</tr>
<tr>
<td>4</td>
<td>25 Mbps</td>
<td>3 Mbps</td>
</tr>
<tr>
<td>5</td>
<td>25 Mbps</td>
<td>5 Mbps</td>
</tr>
<tr>
<td>6</td>
<td>50 Mbps</td>
<td><strong>5 Mbps</strong></td>
</tr>
<tr>
<td>7</td>
<td>100 Mbps</td>
<td>20 Mbps</td>
</tr>
<tr>
<td>8</td>
<td>100 Mbps</td>
<td>25 Mbps</td>
</tr>
<tr>
<td>9</td>
<td>1 Gbps</td>
<td>500 Mbps</td>
</tr>
</tbody>
</table>

New Speed Tier ID Added in 2022
Shifted Existing Speed Tier IDs down one number

Note Alaska Plan Carriers have different SpeedTier IDs – Check HUBB Data Formatting Guide: [HUBB Data Formatting Guide](#)
HUBB Annual Certification – New for 2023

Acme Telecom

Deployment Information

Fixed State Year
[Select] [Select] [Select]

Progress for Acme Telecom

Locations Overview as of 2023

My Study Areas

Select Application: HUBB

Annual Certification Notices

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HUBB Annual Certification – New for 2023

Annual Certification

1. The Annual Certification window is open for ACAM. There are 60 days left to certify.
2. The Annual Certification window is open for ACAM PLAN. There are 11 days left to certify.
3. The Annual Certification window is open for ACAM. There are 31 days left to certify.

Carriers are required to complete each SAC for the current filing year. You can find more information on the certification process and the data in the table on the right.

Annual Certification Table

Status: All Certified
SAC: 999999
Year: 2023

Select a record below to view the available actions.

<table>
<thead>
<tr>
<th>SAC</th>
<th>Year</th>
<th>Fund</th>
<th>Obligation Type</th>
<th>Yearly Target Obligation</th>
<th>Uploaded Locations</th>
<th>Certified Locations</th>
<th>Cumulative Certified</th>
<th>Milestone on Target</th>
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<tbody>
<tr>
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<td>2013</td>
<td>ACAM</td>
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<td>11</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>999999</td>
<td>2013</td>
<td>ACAM</td>
<td>25 Mbps/3 Mbps</td>
<td>2015</td>
<td>11</td>
<td>0</td>
<td></td>
<td>Yes</td>
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<td>Original 10 Mbps/3 Mbps</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

New Annual Certification Tab
HUBB Annual Certification – New for 2023

Annual Certification

1. The Annual Certification window is open for ACAM. There are 69 days left to certify.
2. The Annual Certification window is open for AK PLAN. There are 81 days left to certify.
3. The Annual Certification window is open for ACAMIL. There are 31 days left to certify.

Carriers are required to certify each SAC for the current Billing year. You can find more information on the certification process and the data in the table below in the ‘Help with Certifying’ section on the right.

Annual Certification Data table

<table>
<thead>
<tr>
<th>Status</th>
<th>Fund</th>
<th>SAC</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Certified</td>
<td>All Funds</td>
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<td>2023</td>
</tr>
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</table>

Select a record below for the available action

1 selected   Select All   Certify

<table>
<thead>
<tr>
<th>SAC</th>
<th>Year</th>
<th>Fund</th>
<th>Obligation Type</th>
<th>Yearly Target Obligations</th>
<th>Uploaded Locations</th>
<th>Certified Locations</th>
<th>Cumulative Certified</th>
<th>Milestone on Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>999999</td>
<td>2023</td>
<td>ACAM</td>
<td>25 Mbps / 3 Mbps</td>
<td>2500</td>
<td>2450</td>
<td>2450</td>
<td>9575</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 Mbps / 1 MBPS</td>
<td>500</td>
<td>450</td>
<td>450</td>
<td>675</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Check Box and Click Certify to complete Annual Certification for this SAC
HUBB Annual Certification – New for 2023

Certifying Officer Completes Annual Certification
Annual Certification Upload and Revert

Annual Certification

1. The Annual Certification window is open for ACAM. There are 60 days left to certify.
2. The Annual Certification window is open for AKE PLAN. There are 31 days left to certify.
3. The Annual Certification window is open for ACAMI. There are 35 days left to certify.

Carriers are required to certify each SAC for the current filing year. You can find more information on the certification process and the data in the table below in the “Help with Certifying” section on the right.

Annual Certification Data table

<table>
<thead>
<tr>
<th>Status</th>
<th>Fund</th>
<th>SAC</th>
<th>Year</th>
<th>Obligation Type</th>
<th>Weekly Target Obligations</th>
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<th>Milestone on Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Funds</td>
<td>999999</td>
<td>2023</td>
<td>25 Mbps / 3 Mbps</td>
<td>2500</td>
<td>2450</td>
<td>2450</td>
<td>9575</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>AGAM</td>
<td>2023</td>
<td>999999</td>
<td>4 Mbps / 1 MBPS</td>
<td>500</td>
<td>450</td>
<td>450</td>
<td>675</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Check Box and Click Revert to undo Annual Certification for this SAC
Are you sure you want to revert?

As an officer of the reporting carrier, I am reverting Annual Certification.

You have selected the following SAC(s) to revert:

LO0038

Please enter the holding company name

Test

To sign your certification digitally, please enter your name [new one]

NewOne
Annual Certification Upload and Revert

Manage Uploads

Use the form entitled CSV Template to upload data. For more information on how to use these and how to format your data, click on Detailed Instructions and Filing Guidance Q&A. For bulk deleting data from previously uploaded file, use the form entitled Bulk Deletion Template. For bulk updating data from previously uploaded file, use the form entitled Bulk Modification Template.

The "deployment year" is defined by the system from the deployment date provided in each qualifying uploaded record that should be reported to USAC. The year associated with the deployment date is used as the "deployment year".

The HSPI permits carriers to file records for multiple deployment years at once.

The HSPI permits carriers to file records for multiple deployment years at once.

The HSPI permits carriers to file records for multiple deployment years at once.

The HSPI permits carriers to file records for multiple deployment years at once.

The HSPI permits carriers to file records for multiple deployment years at once.

The HSPI permits carriers to file records for multiple deployment years at once.

Help with Uploading

Detailed Instructions
Filing Guidance Q&A
CSV Template
Bulk Deletion Template
Bulk Modification Template

Upload Location File
Upload Bulk Deletion File
Upload Bulk Modification File
# Annual Certification Upload and Revert

## Recently Uploaded Files

<table>
<thead>
<tr>
<th>File Name</th>
<th>File Type</th>
<th>Uploaded</th>
<th>Progress</th>
<th>Records Uploaded</th>
<th>Data Errors &amp; Warnings</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk_Delete.DynamicFile_Error.csv</td>
<td>Bulk Delete</td>
<td>1/17/2024, 12:29:42 PM</td>
<td>Completed</td>
<td>41</td>
<td>40</td>
<td>Review &amp; Delete Data</td>
</tr>
<tr>
<td>BulkModification_Template100024.csv</td>
<td>Bulk Modification</td>
<td>1/17/2024, 12:26:40 PM</td>
<td>Completed</td>
<td>0</td>
<td>1</td>
<td>Review &amp; Certify Data</td>
</tr>
<tr>
<td>100024 file.csv</td>
<td>New Locations</td>
<td>1/17/2024, 12:26:24 PM</td>
<td>Completed</td>
<td>1</td>
<td>1</td>
<td>Review</td>
</tr>
<tr>
<td>100024 file.csv</td>
<td>New Locations</td>
<td>1/17/2024, 12:25:48 PM</td>
<td>Completed</td>
<td>1</td>
<td>0</td>
<td>Review</td>
</tr>
</tbody>
</table>
Annual Certification Upload and Revert

File Upload Details

Summary

Record With Issues

Search within

Latitude/Longitude or SAC

Displaying 1 of 1 records

SAC Latitude Longitude Date of Deployment Speed Tier State No. of Locations View/Edit

100024 44.951277 -70.102315 12/1/2023 4 MN 1

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Annual Certification Upload and Revert
Annual Certification Upload and Revert
For more information about filing in the HUBB, please visit the HUBB resource webpage:

https://www.usac.org/high-cost/annual-requirements/submit-data-in-the-hubb/

Resources include:

HUBB FAQs
USAC Guide to Geolocation Practices
FCC Guidance on Location Reporting
HUBB User Guide and Data Formatting Instructions
Templates for data uploads, bulk deletions and bulk modifications
Verification Reviews: Confirming Broadband Deployment

For more information about the verification review process, please visit the verification review resource webpage:

https://www.usac.org/high-cost/resources/fund-verification-reviews/

Resources include:
Verification review schedule (by fund)
Examples of the types of documentation that carriers can supply to prove deployment
Verification webinar recording
Verification webinar presentation
Network Performance Testing: Measuring Speed and Latency

For more information about performance measures testing, please visit the performance measures testing resource webpage:

https://www.usac.org/high-cost/annual-requirements/performance-measures-testing/

Resources include:

Performance Measures testing schedule (by fund)
FCC information about the performance measures testing program
Charts showing acceptable test paths and remote server locations
List of vendors that are helping carriers with speed and latency testing
Quick tips guide to the PMM
An explanation of PMM compliance calculations
PMM webinar recording
PMM webinar presentation
Questions?