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The Federal Communications Commission (the "Commission") will make available a web-based bidding system for Auction 107, the auction of new flexible-use overlay licenses in the 3.7–3.98 GHz band. This user guide is for the clock phase of Auction 107.

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# 1. Introduction

This guide describes the features of the web-based FCC auction bidding system that bidders will use to bid in the clock phase of Auction 107. Additional information for this auction can be found on the FCC Auction 107 website: <a href="https://www.fcc.gov/auction/107">www.fcc.gov/auction/107</a>.

During the Auction 107 clock phase, applicants that have been qualified by the FCC to participate may bid for generic blocks of spectrum.

## 1.1. Conventions

In this guide screen names are Capitalized. Internet addresses are highlighted in blue, links in the bidding system are <u>underlined</u>, and the following text represents a Button.

Text boxes are used to indicate points where care is needed:

Care is needed with this feature!

In this guide, the term "bidder" refers to an applicant that has been identified by the FCC as qualified to bid in Auction 107 based on review of its FCC Form 175 application and receipt of a timely upfront payment. The terms "user," "you," and "authorized bidder" refer interchangeably to an individual authorized bidder identified on a qualified bidder's Form 175 as an individual authorized to access the bidding system and to submit bids on behalf of the qualified bidder.

Most of the examples are for "Reliable Access, Inc.", a bidder that has not claimed a bidding credit. Representative examples are also given for a bidder that has claimed a rural service provider bidding credit and for a bidder that has claimed a small business bidding credit.

### 1.2. Guide Structure

This guide is set out as follows:

- Section 2 provides an overview of the clock phase of Auction 107.
- Section 3 describes the requirements for accessing the bidding system and how to log in.
- Section 4 explains how to navigate the system, and provides a summary of the screens available to bidders.
- Section 5 describes the products available in the clock phase of the auction.
- Section 6 describes the auction schedule and communications between the bidder and the FCC.
- Section 7 explains how to bid in the clock phase.
- Section 8 describes how to verify bids submitted in a round.
- Section 9 describes how to access results of the clock phase.

There are also five appendices:

- Appendix 1 provides troubleshooting tips for a number of different scenarios.
- Appendix 2 provides additional information about RSA SecurID<sup>®</sup> tokens.
- Appendix 3 contains a glossary of terms.
- Appendix 4 provides examples of bid types.
- Appendix 5 describes how bids are processed and provides an example.

# 2. Introduction to the Auction 107 Clock Phase

Auction 107 will include 406 PEAs. In the 360 PEAs that comprise blocks subject only to the Phase II accelerated relocation deadline, there will be a single category in the clock phase, designated ABC, and thus also a single assignment category (for all 14 blocks A1–C4).

In the 46 PEAs with blocks subject to the Phase I deadline, there will be two categories in the clock phase (A and BC) and two categories in the assignment phase (interim and final). A winner of a Category A block will be assigned one of the five blocks subject to the Phase I deadline (A1–A5) as an interim assignment, and any one of the blocks in the band (A1–C4) as a final assignment. A winner of a Category BC block will be assigned any one of the blocks in the band (A1–C4) as a final assignment and will not be assigned any block as an interim assignment.

For the clock phase, a product is the pairing of a PEA and a category. Thus, there will be two products in each of the 46 PEAs with blocks subject to the Phase I deadline, and one product in each of the 360 PEAs with blocks subject only to the Phase II deadline.

The clock phase of Auction 107 will be conducted in a series of timed bidding rounds. During a bidding round, users can place bids for generic licensing blocks of a product. Each bid will specify a requested quantity of blocks of a product and a price. **Bidding continues each round for all products until there is a round with no excess demand for any product.** 

After a round ends, the bidding system processes the bids and posts the results. For each product, users can see their "processed demand" — the number of blocks the bidder holds after bid processing, the aggregate demand for each product, and the price at the end of the last completed round (the "posted price"). If, after the bids are processed, aggregate demand exceeds supply for at least one product, then the auction continues with a new clock round, and users can see the clock prices for the next round.

If, after the bids are processed, there is no excess demand for blocks in any product — that is, any category in any PEA — then the clock phase of the auction ends and the final clock phase price for each product is equal to the posted price for that product for the last clock round. The auction then progresses to the assignment phase, in which a bidder that won generic blocks in the clock phase has the option to bid for frequency-specific licenses corresponding to its clock phase winnings.

In Round 1, a user indicates the number of blocks that it demands at the minimum opening bids (the opening prices). For Round 1, the processed demands of a bidder are simply the quantities that it bid for in the round, and the posted price of a product is the minimum opening bid for that product.

If a bidder does not bid in Round 1, then the bidder will not be able to bid in any subsequent round of the auction.

In each round after Round 1, a range of per-block prices is associated with each product. The start-ofround price is the lowest price in the range, and the clock price is the highest price in the range. The start-of-round price for a product is equal to the posted price of the previous round for that product. For a given product, a user can either bid to maintain its demand from the previous round at the current round's clock price or bid to change its demand at a price associated with the round.

# 3. System Requirements and Access

This section explains the bidding system requirements for accessing the bidding system, how to log in, and other matters related to access.

# **3.1. Minimum System Requirements**

At the minimum, the following is required to access the bidding system:

- Microsoft Windows<sup>®</sup> 10, or Apple<sup>®</sup> Mac<sup>®</sup> OS X<sup>®</sup> 10.13 or later with at least 8 GB of memory
- A recent version of Google Chrome<sup>™ 1</sup> or Microsoft Edge (Chromium).<sup>2</sup> The browser must be configured to accept cookies.<sup>3</sup>
- Access to the internet
- 1920 x 1080 screen resolution or higher<sup>4</sup>
- While not required, bidders will almost certainly want to use a spreadsheet program such as Microsoft<sup>®</sup> Excel<sup>®</sup> 2013 or later for viewing results files and editing their bid files if using the upload bids feature

Smartphones and tablets are not supported. The bidding system may run on different computer configurations, including browsers not listed above. It is the responsibility of the user to test any alternative configurations with the bidding system in advance of the auction — for example during the mock auction — and to ensure that they have access to one of the supported browsers should they experience problems. Any user attempting to access the bidding system with a computer configuration or device that does not meet the requirements listed above is solely responsible for any resulting failure to access the bidding system, failure to do so in a timely manner, or failure of the bidding system to process the user's attempted bidding or other actions (even if it appears that such actions were completed properly).

<sup>2</sup> Microsoft Edge (Chromium) is available for Windows and can be downloaded from the Microsoft website. Its

logo looks like this: C. Older versions of Edge (known as Microsoft Edge Legacy) use a different logo: C. All Edge versions at release 79 or later are Microsoft Edge (Chromium). To determine which version of Edge you have

<sup>&</sup>lt;sup>1</sup> Google and the Google logo are registered trademarks of Google Inc.

installed, you can inspect the version number by clicking on the three dots in the upper right corner, <sup>‡</sup>, then click on "Settings" and "About Chrome". For example, Version 81.0.4044.138 is Microsoft Edge (Chromium), as it is at release 81.

<sup>&</sup>lt;sup>3</sup> Appendix 1 explains how to check and/or reset these settings.

<sup>&</sup>lt;sup>4</sup> The system has been optimized to display all the information without horizontal scrolling on 1920 x 1080 screens with medium font size. If all the information from the bidding system cannot fit on your display when your browser is maximized (taking up the entire screen), you can either zoom out using your internet browser or scroll right and left using the scroll bars. To adjust the zoom, hold down the control ("ctrl") key and use the "+" and "-" keys to zoom in and out.

Users should not use web browsers containing third-party toolbars or other extensions. Third-party browser extensions potentially may cause problems for users of interactive websites, including the auction bidding system, and may make users' computers more vulnerable to hacker attacks. If in doubt, you should consult your internal information technology departments in order to disable third-party browser extensions or, if necessary, obtain a clean installation of a supported web browser.

Users are discouraged from adding additional toolbars to their browsers, such as a toolbar for bookmarked pages. Additional toolbars may increase the likelihood that vertical scrolling is needed to see all fields on the screen.

To maximize protection against potential security vulnerabilities, users are advised to ensure the latest service pack (if applicable), security patches for their operating system, and the most recent version of Google Chrome and Microsoft Edge (Chromium), have been installed.

## 3.2. Logging In

Once the bidding system becomes available, you can log in at a URL provided only to qualified bidders in the registration materials. When available, the link to the Login screen, as shown in Figure 1, will be visible. When the Login screen is not available, there will be a message to that effect on the screen, and the link to access the Login screen will not be visible.



### Figure 1: Bidding system homepage

Click on the <u>Click here for the login screen</u> link in order to get to the Login screen shown in Figure 6.

This guide provides two sets of login instructions: Section 3.2.1 describes initial login procedures where an authorized bidder creates a personal identification number ("PIN") and logs in for the first time; and Section 3.2.2 describes the standard login procedure used after the PIN is created.

Each authorized bidder listed on the qualified bidder's FCC Form 175 will be provided with a unique bidding system username (user ID) for use in the auction bidding system. All authorized bidders for a qualified bidder will use a password associated with the FRN (FCC Registration Number) used on the Bidder's FCC Form 175. The password may be either the password directly associated with the FRN in CORES or the password associated with the username that is linked to the FRN within CORES.

Each bidding system username will be associated with a specific RSA SecurID<sup>®</sup> token (RSA token) assigned to the authorized bidder for the auction. The RSA token generates a time-sensitive 6-digit tokencode that changes every 60 seconds. The username and RSA token should only be used by the authorized bidder to whom it was assigned. The bidding system logs all actions taken by a user based on the username entered when logging in.

RSA tokens will be sent by overnight delivery to the contact person identified in the FCC Form 175 for each qualified bidder, and the contact person must distribute an RSA token to each of the specified authorized bidders. Each authorized bidder will need to set a private PIN for his or her token.



### Figure 2: An RSA SecurID<sup>®</sup> token

Please note that each RSA token is tailored to a specific auction. Therefore, RSA tokens issued for other auctions or obtained from a source other than the FCC will not work for this auction.

After the conclusion of bidding in Auction 107, the Commission will send each bidder a pre-addressed, stamped envelope in which to return its RSA tokens.

Take care not to lose your RSA token! Replacing or reassigning an RSA token can be time-consuming, which in some cases could result in missing a bidding round and losing some or all bidding eligibility.

### **3.2.1.** First Time Login Procedures

The first time you log in to the bidding system, you must create an RSA PIN. Each authorized bidder for a qualified bidder will create an RSA PIN once — unless the authorized bidder gets a replacement RSA token (e.g., because an RSA token has been lost or broken). After the RSA PIN has been created, you must follow the standard login procedures.

You will need the following login credentials to access the bidding system for the first time:

- Username (user ID): FCC assigned
- Password: FRN password or associated Username password
- RSA tokencode: A six-digit code generated by the RSA SecurID<sup>®</sup> token

In the bidding system login area, type in the username, password and the current tokencode on the individually assigned RSA token as shown in Figure 3. Leave the PIN field blank and click Login ».

If you forget your password, you can contact the FCC Support Center at (877) 480-3201, Option 1 (Mon–Fri 8:00 a.m.–6:00 p.m. Eastern Time (ET)).

Tokencodes change every 60 seconds. Avoid using a code that is about to expire, as indicated on the token screen, by waiting for a new code to appear.

### Figure 3: First time login procedure

Please log in.						
Username:	A000000000					
Password:	•••••					
PIN:						
्र 🥶 📴	456456					
TIP: if you have not set an RSA PIN, please leave the PIN field blank.						
	Login »					

The RSA tokencode will be generated by your RSA SecurID<sup>®</sup> token and will not be the same as the code shown in Figure 3.

After you click Login » the system displays a screen to create a private PIN, as shown in Figure 4).

#### Figure 4: Set PIN screen

You must set a new PIN to continue.					
	Please enter a new PIN for your RSA SecurID® token. This PIN may be from 4 to 8 digits long and must be numeric. PIN:				
	PIN Again:				
	Expires in: 111 s				

Type a 4–8 digit numeric PIN of your choice in the PIN field. Enter it twice as requested to ensure accuracy. Then click Change PIN. Memorize this PIN! Note that you have a limited amount of time to set a new PIN and confirm your credentials, as shown by the expiration time on the screen.

A message will display in a yellow box above the blue PIN and tokencode fields to indicate that the new PIN was accepted, as shown in Figure 5.

Type in the PIN you just created and a **new** tokencode. Make sure that the number on the RSA token's display has changed, type this new number into the tokencode field, then click Continue.

Figure 5: Confirm RSA credentials screen

The new PIN was accepted. Please finalize the login with new RSA credentials.				
	Please wait until the tokencode changes on your RSA token. Then, enter the new tokencode.			
	PIN:			
	Continue			
	Expires in: 98 s			

After completing the set-up procedure, you will be able to access the bidding system and see the navigation bar on the left-hand side. Thereafter, the standard log in procedure applies.

### 3.2.2. Standard Login Procedure

To log in to the bidding system, you will need the following login credentials:

• Username (user ID): FCC assigned

- Password: FRN password or associated Username password
- PIN: Numeric PIN created during the initial login (see Section 3.2.1)
- RSA tokencode: A six-digit code generated by the RSA SecurID<sup>®</sup> token

Enter the information on the Login screen (see Figure 6) and click Login ».

If you forget your FRN password, contact the FCC Support Center at (877) 480-3201, option 1 (Mon–Fri 8:00 a.m.–6:00 p.m. ET).

### Figure 6: Login screen

Auction 107 Clock Phase					9:59 AM ET 7/1/2020
	Auction	107 - Clock Phase			
		WARNING			
		of this computer system or of the data Section 1030, and may subject the ind Taxpayer Browsing Protection Act), and procedures. Such monitoring may result	a contained herein or in trans ividual to Criminal and Civil j 17431. This system is subjec thin the acquisition, recording eveals possible evidence of co	It to authorized users ONLY. Unauthorized access, use, misuse, or modificat sit to/from this system constitutes a violation of Title 18, United States Co penalties pursuant to Title 26, United States Code, Sections 7213, 72134 ( to monitoring to ensure proper performance of applicable security features and analysis of all data being communicated, transmitted, processed or sto iminal activity, such evidence may be provided to Law Enforcement Personn CH MONITORING	de, the or red
			Please log in.		
			Username:		
			Password:		
			PIN:		
			TIP. If you have not se PIN field blank.	t an RSA PIN, please leave the	
© 2000-2020 by Power Austions LLC.					

### 3.2.3. Login Errors

During an auction, the system keeps track of the success or failure of each login attempt. In case of incorrect entry of data into any of the four required fields during login, you will receive an error message with an error code. For assistance, call the Auction Bidder Line at the number provided with your registration materials.

### 3.3. Multiple Users for the Same Bidder

It is possible for more than one authorized bidder for the same qualified bidder to log in and access the bidding system at the same time, each using his or her assigned username and credentials. Any updates made by one such authorized bidder will be displayed on the screen of the other users for the same bidder after the screen is refreshed.

However, **only one such authorized bidder should bid at any given time** to avoid a potential conflict in data that may produce a bid, or set of bids, that was not intended.

S To avoid a potential conflict that may produce unintended results, only one authorized bidder should bid at any given time.

## 3.4. Automatic and Manual Logout

A single user cannot be logged into the bidding system using two computers (or two browser sessions on the same computer) at the same time.

If a user tries to use the same username to access the bidding system from multiple computers or browser sessions, the bidding system will automatically log the user out from the first session and will display a logout notification. This is a protective feature for users because it allows a user to log in to the bidding system using a second computer if the first computer crashes before the user could log out of the system.

A user that is inactive for more than 30 minutes will automatically be logged out of the system completely and will need to log in again to access the site.

You may manually log out of the bidding system at any time using the Logout button, located at the bottom of the navigation bar on every screen, as shown in Figure 7. Logging out of the bidding system will not cause submitted bids to be lost. Logging out will not cause bids that were saved (but not submitted) to be lost; however, you will need to log back in to submit these bids.

# 3.5. Auction Bidder Line

The Auction Bidder Line is available to assist bidders with first time login procedures, bidding actions, review of round results, announcements, and auction-related questions. The telephone number for the Auction Bidder Line is provided with your registration materials.

Bidders will need to provide the telephonic bid assistant with the appropriate login information (discussed in Section 3.2.2) to access the bidding system. Telephonic bid assistants are required to follow a script, and the length of calls to place bids will vary depending upon the complexity and the number of bids. Bidders are therefore reminded to allow sufficient time to bid by placing their calls well in advance of the close of a round.

## **3.6. Additional Information**

Appendix 1: System Troubleshooting provides additional information about common errors that you may encounter accessing the bidding system.

Appendix 2: RSA SecurID<sup>®</sup> Token Information provides additional information about RSA tokens. It explains what to do if a bidder wishes to change or replace an authorized bidder/user and what to do in the event of lost or damaged RSA tokens.

System Navigation and Overview

# 4. System Navigation and Overview

The bidding system provides bidding information in two ways: on screens, accessed through the navigation bar; and through downloadable files, generally accessed via the Downloads screen. In addition, a link to the sample bids upload file is available on the Place Bids screen when a round is announced or active (see Section 7.6.1).

This section describes how to access and navigate through these screens.

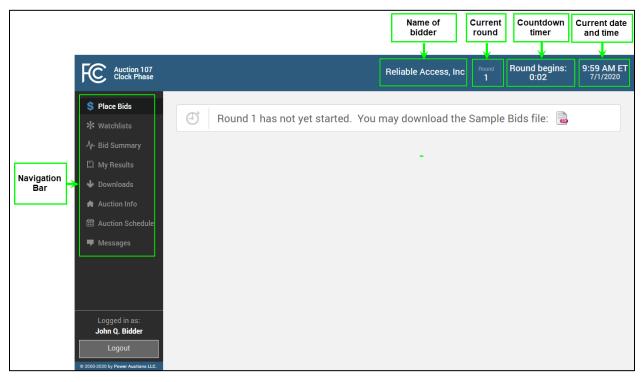
### 4.1. Navigation Bar and Features Common to All Screens

All screens in the bidding system have a navigation bar on the left side, which provides links to the other available screens. Beneath the navigation bar is your name (the name of the authorized bidder who has logged in) and the Logout button, as described in Section 3.4.<sup>5</sup>

The blue bar at the top of each screen is also common to all screens. It displays status and timing information. It shows the name of the qualified bidder, the current round, a countdown timer showing the time to the beginning or the end of a round and the current date and time in Eastern Time. An illustration of the navigation bar and common screen features is shown in Figure 7.

<sup>&</sup>lt;sup>5</sup> Users are advised to use the navigation features of the bidding system rather than using a browser's forward and back navigation functions which may produce unpredictable results.

System Navigation and Overview



### Figure 7: Navigation bar and features common to all screens

### 4.2. Summary of Bidding System Screens

The navigation bar gives access to eight screens. Their functions are summarized in Table 1 below in the order in which they appear on the navigation bar.

Table 1:	Summary	of	screens	reached	from	the	navigation bar
----------	---------	----	---------	---------	------	-----	----------------

Screen	Description
Place Bids	Allows the user to place bids in a round either on the screen or by uploading a bid file
Watchlists	Allows the user to create custom watchlists of products
Bid Summary	Allows the user to view a summary of all bids submitted on behalf of the bidder during a particular round
My Results	Allows the user to view the results of bid processing for the bidder in a given round for all products in which the bidder bid in the round or has processed demand for the previous round
Downloads	Allows the user to download files about the bidder's bids and results
Auction Info	Allows the user to view information about all available products

System Navigation and Overview

Screen	Description
Auction Schedule	Allows the user to view the schedule for upcoming bidding rounds
Messages	Allows the user to view announcements and messages from the FCC, and to send messages to the FCC

## 4.3. Summary of Downloads

The following table provides a summary of downloads available in the bidding system, and how to access these downloads.

Download File	Where to access	Description
Sample Bids File	Place Bids	This file is a template for placing bids via uploads during a round and includes a record for each product in each PEA the bidder selected on its Form 175. It is available when the round is announced and during an active round when no bids have yet been placed.
My Bids	Downloads	During an active round, this file contains all bids the bidder submitted during the round. Once a round closes, it will also contain any missing bids placed by the system.
My Results	Downloads	The results of bid processing for each of the bids
My Product Status	Downloads	The status of all products corresponding to the PEAs the bidder selected on its Form 175
My Bidder Status	Downloads	A summary of bidder activity and financial totals for that bidder
My Bidder Markets	Downloads	A list of all PEAs in the auction with a flag indicating whether the bidder selected each PEA on its Form 175

Viewing Product Information

# 5. Viewing Product Information

The Auction Info screen provides basic information about all of the products available in Auction 107 (Figure 8).<sup>6</sup> You may access the Auction Info screen once the bidding system becomes available prior to the start of the clock phase of Auction 107. The product information displayed on the Auction Info screen does not change during the clock phase of the auction.

Auction 107 Clock Phase				Rel	liable Access, Inc		begins: 02	9:59 AM E 7/1/2020
<ul><li>\$ Place Bids</li><li>* Watchlists</li></ul>	Auction In	fo						
-∕γ- Bid Summary	Market Number	Market Name	Category	Supply	Population	Bidding Units	Minimur	n Opening Bid
My Results Downloads								
Auction Info	PEA001	New York, NY	А	5	25,237,061	757,100	\$1	15,142,000
🛗 Auction Schedule	PEA001	New York, NY	BC	9	25,237,061	757,100	\$1	15,142,000
🗭 Messages	PEA002	Los Angeles, CA	А	5	19,410,169	582,300	\$1	1,646,000
	PEA002	Los Angeles, CA	BC	9	19,410,169	582,300	\$1	1,646,000
	PEA003	Chicago, IL	А	5	9,366,713	281,000	ş	\$5,620,000
	PEA003	Chicago, IL	BC	9	9,366,713	281,000	ş	\$5,620,000
Logged in as: John Q. Bidder	PEA004	San Francisco, CA	А	5	9,027,937	270,800	Ş	\$5,417,000
Logout	PEA004	San Francisco, CA	BC	9	9,027,937	270,800	ş	\$5,417,000
© 2000-2020 by Power Auctions LLC.								

### Figure 8: Auction Info screen

As shown in Figure 8, the Auction Info screen provides the market number, market name, license category, total supply, population, number of bidding units, and minimum opening bid prices for each product.<sup>7</sup> The supply is 5 blocks for Category A, 9 blocks for Category BC, and 14 blocks for Category ABC.

<sup>&</sup>lt;sup>6</sup> The products listed on the Auction Info screen are not limited to the PEAs that a bidder selected on its Form 175.

<sup>&</sup>lt;sup>7</sup> You can also see product information on the Public Reporting System (PRS), which displays round-by-round information about the aggregate demand, current price, and next round price for each product. The PRS is available at <u>auctiondata.fcc.gov</u>.

# 6. Auction Schedule and Messages

## 6.1. Auction Schedule

The Auction Schedule screen shows the current schedule for upcoming rounds in Eastern Time (ET), as illustrated in Figure 9. The schedule shows the date, duration, start time and end time for each round. The time of the next start or end of a round is displayed in red bold text — in this example, the start of Round 1.

The FCC may adjust the number of rounds per day as the auction proceeds. Additional rounds will be displayed as the clock phase progresses. The schedule displayed in the example does not indicate the expected number of rounds in the auction. Similarly, the number of rounds displayed during the auction does not imply an expected number of rounds left in the auction; the Auction Schedule screen will show the next several rounds assuming the auction continues for that duration or longer.

### Figure 9: Auction Schedule screen

Auction 107 Clock Phase		Reliable Access, Inc	Round 1	Round begins: 0:02	9:59 AM ET 7/1/2020
\$ Place Bids * Watchlists	Auction Schedule				
-∕γ- Bid Summary	Wednesday - Jul 01, 2020	Duration		Start	End
🖹 My Results	Round 1	2 hours	10:00	AM ET	12:00 PM ET
🔸 Downloads	Round 2	2 hours	2:00	PM ET	4:00 PM ET
🖨 Auction Info	Thursday - Jul 02, 2020	Duration		Start	End
🛗 Auction Schedule	Round 3	2 hours	10:00	AM ET	12:00 PM ET
🗭 Messages	Round 4	2 hours	2:00	PM ET	4:00 PM ET
Logged in as:	Note: <ul> <li>All start and end times are in ET. Red figures indicate the time</li> <li>All future rounds are tentative and subject to change.</li> <li>indicates the round is active.</li> </ul>	of the next event.			
John Q. Bidder					
Eogout © 2000-2020 by Power Auctions LLC.					

### 6.2. Messages: Announcements and Conversations

On the Messages screen you can see announcements made by the FCC. You can also communicate with the FCC by sending messages to and receiving responses from the FCC that are visible only to you and the other authorized bidders for the same qualified bidder. If you have any unread announcements or conversations, a notification will appear in the blue bar at the top of the screen. The number of unread messages is shown in this notification and in parenthesis next to the <u>Messages</u> link in the navigation bar as shown in Figure 10.

Auction 107 Clock Phase	Vou have 1 new message. New message notification Reliable Access, Inc 1 Round begins: 0:02	9:59 AM ET 7/1/2020
\$ Place Bids	Bound 1 has not yet started. You may download the Sample Bids file:	
★ Watchlists	Hound Thus hot yet started. Fou may download the oumple blus hie.	
-∕γ- Bid Summary		
🖾 My Results		
🕁 Downloads		
🖨 Auction Info		
🛗 Auction Schedule		
Messages (1)		
There is one unread message		
Logged in as: John Q. Bidder		
Logout		

#### Figure 10: New message indicator

To read announcements, or to send a message to or read a response from the FCC, click on the <u>Messages</u> link in the navigation bar on the left side, or on the notification in the blue bar. The Messages screen will open, displaying all announcements and conversations in reverse chronological order, showing the first line (or part of the first line) of the announcement or message. You must click on the <u>View entire announcement »</u> or <u>View entire conversation / Respond »</u> link to open and read an announcement or message in its entirety.

Auction 107 Clock Phase	You have 1 new message.	Reliable Access, Inc Round begins: 9:59 AM ET 1 0:02 7/1/2020
<ul> <li>Place Bids</li> <li>Watchlists</li> <li>Bid Summary</li> </ul>	Messages here	Notification of unread messages You have 1 new announcement below. All Messages (Printer-friendly View)
My Results	Announcements	
<ul> <li>Downloads</li> <li>Auction Info</li> </ul>	To: All Participants From: FCC, Auction Administrator Sent: July 01 2020, 9:59:58 AM ET	Sample Announcement Dear Bidders, This is a sample announcement. Regards, FCC
<ul><li>Auction Schedule</li><li>Messages (1)</li></ul>		View entire announcement »
Announcements from the FCC	My Conversations You have no Conversations at this time. You may us	Compose New Message ≥
Logged in as: John Q. Bidder Logout	Note: • "My Conversations" shows the most recent message • The FCC may respond to your messages via phone or	

#### Figure 11: Messages screen

As shown in Figure 11 and Figure 15, if any message on the screen has not been read, a green notification box displayed at the top of the screen will indicate the number of unread announcements or messages. Any unread message is highlighted in green. After an unread announcement or message has been opened, the number in the parentheses by the <u>Messages</u> link on your screen will decrease accordingly. The number will not decrease until the <u>View entire announcement »</u> or <u>View entire conversation / Respond »</u> link has been clicked for the unread message.

Whenever you see an indication that a message is unread, go to the Messages screen and click on the relevant <u>View entire</u> <u>announcement w</u> or <u>View entire conversation / Respond w</u> link.

At the top right-hand side of the screen, a filter allows you to find messages containing particular words. You can view all of the bidder's messages by clicking on the <u>All Messages (Printer-friendly View)</u> link at the top right-hand side of the screen. This page can then be printed using the browser's print function.

### 6.2.1. Receiving and Reviewing Announcements

The FCC may send announcements to all bidders. Announcements contain important information, such as changes in the number of rounds per day or the suspension of bidding due to unforeseen circumstances. The Message screen will only show the first line or part of the first line of an announcement. As mentioned above, to view the entire text of an announcement you must click on the <u>View entire announcement w</u> link for the announcement you wish to read, as shown in Figure 12.

#### Figure 12: View entire announcement link

Auction 107 Clock Phase	You have 1 new message.	Reliable A	Access, Inc	Round 1	Round begins: 0:02	9:59 AM ET 7/1/2020
\$ Place Bids	Messages					
✤ Watchlists	<b>A</b>	You have 1 new announcement below	Ι.			
-∕γ- Bid Summary	Filter				All Messages (Printer	-friendly View)
🖾 My Results	Announcements					
🕁 Downloads	To: All Participants	Sample Announcement				
🖨 Auction Info	From: FCC, Auction Administrator Sent: July 01 2020, 9:59:58 AM ET	Dear Bidders, This is a sample announcem	oont Begards Fi	00		
🛗 Auction Schedule		bear bladers, mis is a sample announcem		_	View entire anno	uncement »
👎 Messages (1)			View entire announceme	-		
	My Conversations				Compose N	ew Message »
	You have no Conversations at this time. You may use t	he "Compose New Message" button to send a	a message to the	e FCC.		
Logged in as: John Q. Bidder	Note:					
€ 2000-2020 by Power Auctions LLC.	<ul> <li>"My Conversations" shows the most recent message of</li> <li>The FCC may respond to your messages via phone or this</li> </ul>					

Clicking on the <u>View entire announcement »</u> link loads an Announcement screen which displays the full text of the announcement as shown in Figure 13. To close the announcement and return to the Messages screen, click the <u>« Back to Messages</u> link.

Auction 107 Clock Phase		Reliable Access, Inc	Round	Round begins: 0:02	9:59 AM ET 7/1/2020
<ul> <li>Place Bids</li> <li>Watchlists</li> </ul>	Announcement			Prin	ter-friendly View
-∕γ- Bid Summary	To: All Participants	Sample Announcement			
🖾 My Results	From: FCC, Auction Administrator Sent: July 01 2020, 9:59:58 AM ET				
🔸 Downloads		Dear Bidders,			
Auction Info		This is a sample announcement.			
🛗 Auction Schedule		Regards,			
Messages		FCC			
		« Back to Messages			
Logged in as: John Q. Bidder					
Logout					
© 2000-2020 by Power Auctions LLC.					

### Figure 13: An open announcement

### 6.2.2. Conversations with the FCC

You can communicate with the FCC through the bidding system. A message from a user is associated with a bidder's FRN and the authorized bidder who sent the message. Only authorized bidders for a bidder can see such messages.

For time-sensitive issues, users should call the Auction Bidder Line telephone number which is provided to qualified bidders.

To compose a new message to the FCC, click on the <u>Compose New Message >></u> button in the My Conversations section of the Messages screen, as shown in Figure 11 above. Next, enter the subject and content of the message in the relevant fields as shown in Figure 14 below. Click <u>Send</u> to send the message. To cancel an unsent message, click on the <u>« Back to Messages</u> link and return to the Messages screen. Navigating away from the Compose New Message screen will delete any unsent message.

Note that if the system prompts you to refresh your screen (e.g., because a round has just opened) while you are typing a message, your message will be lost if you refresh at that time. Instead, cancel the refresh notification, finish typing and send your message, and then refresh the screen.

Auction 107 Clock Phase			Reliable Access, Inc	Round 1	Round begins: 0:02	9:59 AM ET 7/1/2020
<ul><li>\$ Place Bids</li><li>* Watchlists</li></ul>			If you require a time-sensitive response, call the Auction Bidder Line at 888-268-8195.			
-∕γ- Bid Summary	Compose New Messag	е				
<ul><li>My Results</li><li>Downloads</li></ul>	To: FCC Subject: San	ple Mes	sage			
♠ Auction Info ₩ Auction Schedule	Dear FCC,					
Messages	This is a sample message. Regards,					
	l John					
Logged in as:	« Back to Messages					Send
John Q. Bidder Logout © 2000-2020 by Power Auctions LLC.						

#### Figure 14: Compose a new message

A sent message will appear as a new conversation in the 'My Conversations' section of the Messages screen. The FCC may reply by sending an electronic message or by calling the contact person on the phone. If there is an electronic reply from the FCC, the reply will be added to that conversation.

As with announcements, new messages are highlighted in green on the Messages screen until they are read. Only the most recent message of a conversation is shown on the Messages screen, as illustrated in Figure 15. To view the complete message and all messages in a conversation, click on the <u>View entire</u> <u>conversation / Respond »</u> link for that conversation.

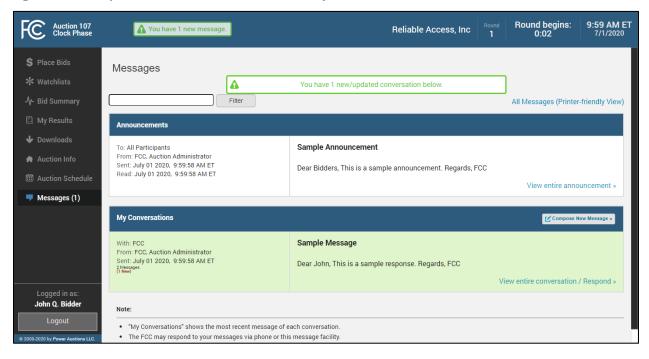


Figure 15: A response to a conversation initiated by an authorized bidder

Clicking on the link to view an entire conversation opens all of the messages in that conversation on the screen, as seen in Figure 16. Click on the <u>« Back to Messages</u> link to return to the messages, or click on the <u>Respond To This Conversation</u> button as shown in Figure 16 to add a further message to the same conversation. Type the message in the box that opens and click <u>Send</u> to send it to the FCC.

#### Figure 16: Viewing a conversation

Auction 107 Clock Phase			Reliable Access, Inc	Round 1	Round begins: 0:02	9:59 AM ET 7/1/2020
\$ Place Bids★ Watchlists	Conversation				Printe	er-friendly View
-∕γ- Bid Summary	With: FCC	Sample Message				
My Results Downloads	From: John Q. Bidder, Reliable Access, Inc (0123456001) Sent: July 01 2020, 9:59:58 AM ET	Dear FCC,				
🖨 Auction Info		This is a sample message.				
🛗 Auction Schedule		Regards,				
Messages		John				
	From: FCC, Auction Administrator Sent: July 01 2020, 9:59:58 AM ET	Dear John, This is a sample response. Regards, FCC				
Logged in as: John Q. Bidder						
Logout	« Back to Me	ssages	Respond To This Conversation			
© 2000-2020 by Power Auctions LLC						

# 7. Bidding Functions

### 7.1. Layout and Actions of the Place Bids Screen

Users conduct all bidding activities through the Place Bids screen, which is accessed through a link on the navigation bar on the left. Figure 17, shown below, illustrates the layout of the Place Bids screen after Round 1.

Auction 107 Clock Phase										Re	eliable Access, In	c 2	ound ends: 1:59:55	2:00 PM ET 7/1/2020
S Place Bids * Watchlists	Requested \$	Commitment Product In			Activity U	Lustioui	nd bid information	Act	Currer	nt round bid	information Filt	tchlist: All	•	
Ŋ- Bid Summary	LICENSE					LAST ROUND			CURREN	T ROUND	U	bload Bids		
🖾 My Results	Market		Category	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bids	5	Status	Quantity	Price		Action	IS
🕁 Downloads	PEA001	New York, NY	А	757,100	5	49	4 @ \$15,142,000		1	4	\$16,657,000		Change	Add New
Auction Info	PEA001	New York, NY	BC	757,100	9	77	7 @ \$15,142,000		1	7	\$16,657,000		Change	Add New
Auction Schedule	PEA002	Los Angeles, CA	А	582,300	5	66	5 @ \$11,646,000		1	5	\$12,811,000		Change	
Messages	PEA002	Los Angeles, CA	BC	582,300	9	56	6 @ \$11,646,000		1	6	\$12,811,000		Change	Add New
	PEA003	Chicago, IL	А	281,000	5	64	3 @ \$5,620,000		1	3	\$6,182,000		Change	
	PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000		1	6	\$6,182,000		Change	Add New
	PEA004	San Francisco, CA	А	270,800	5	16	4 @ \$5,417,000		1	4	\$5,959,000		Change	
	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000		1	2	\$5,959,000		Change	Add New
	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	146	10 @ \$4,705,000		1	10	\$5,176,000		Change	Add New
	PEA006	Philadelphia, PA	А	227,600	5	61	4 @ \$4,552,000		1	4	\$5,008,000		Change	
	PEA006	Philadelphia, PA	BC	227,600	9	37	5 @ \$4,552,000		1	5	\$5,008,000		Change	Add New
	PEA007	Boston, MA	А	203,300	5	5	5 @ \$4,066,000		1	5	\$4,473,000		Change	
	PEA007	Boston, MA	BC	203,300	9	50	4 @ \$4,066,000		1	4	\$4,473,000		Change	Add New
	PEA008	Dallas, TX	А	193,600	5	29	3 @ \$3,871,000		1	3	\$4,259,000		Change	
Logged in as: <b>John Q. Bidder</b>	PEA008	Dallas, TX	BC	193,600	9	67	6 @ \$3,871,000		1	6	\$4,259,000		Change	Add New
Logout	PEA009	Miami, FL	А	188,800	5	56	2 @ \$3,775,000		1	2	\$4,153,000		Change	Add New

Figure 17: Layout of the Place Bids screen after Round 1

The main portion of the screen consists of a table that lists products (e.g., PEA001 Category A blocks). The Place Bids screen by default displays all the products on which you may bid based on the PEAs selected on the bidder's Form 175.

The first five columns provide information about each product — specifically, its market number and name, license category, bidding units, and supply. The next two columns, which appear only after Round 1, provide bid information for each product from the last round — specifically, the product's aggregate demand, the bidder's processed demand for the product, and the product's posted price. The next three columns provide bid information for each product in the current round — specifically, the bidder's bidding status for each product, the quantity of blocks the bidder is demanding, and the associated bid price. The bidding status indicator icons are discussed below. Also, in order to allow bidders to quickly differentiate between products in the same market, the background color of each row is color coded by product category.

The actions you can take on the Place Bids screen are highlighted in Figure 18 below.

Auction 107 Clock Phase												Reliable Access,	Inc Round 2	Round ends: 1:59:55	2:00 PM ET 7/1/2020
\$ Place Bids * Watchlists	Requested (	Commitm		ibility 0,000,000 bi		ired Activity )00,000 bu	· · · · ·	Ipper Limit 10,000 bu	Submitted Activity	Activity Calculat			Vatchlist: All	•	
႔- Bid Summary	LICENSE							LAST ROUN	D	CURRENT	F ROUND		Upload Bids		
🖾 My Results	Market			Ca	tegory	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bids	Status	Quantity	Price		Action	IS
✤ Downloads	PEA001	New Ye	ork, NY		А	757,100	5	49	4 @ \$15,142,000	1	4	\$16,657,000		Change	Add New
Auction Info	PEA001	New Ye	ork, tiy		BC	757,100	9	77	7 @ \$15,142,000	1	7	\$16,657,000		Change	Add Nev
🕮 Auction Schedule	PEA002							[	Watchlist: All					Change	Add New
Messages	PEA002	AC	tivity C	alculator		•						Filter bi	ds here	Change	Aud New
	PEA003		97,	758,640	bu	I 🗌	Subm	nit	Filter					/	
	PEA003														Add New
	PEA004		CUF	RRENT R	DUND		nit bids v terface h		<u>Upload Bids</u>	SI	ubmit bids upload				
	PEA004				-		_			·			_		Add New
	PEA005		Statu	IS	Quan	tity	Pr	ice				Actions			Add New
	PEA006		,		4		\$16	657,000	Cha	nge a bid he	re	Change Ad	d New	/	Add New
	PEA006 PEA007	Bostor	•		A	203,300	5	5	5 @ \$4,066,000		5	\$4.473.000			Add New
	PEA007	Bostor			BC	203,300	9	50	5 @ \$4,066,000 4 @ \$4,066,000		4	\$4,473,000			Add New
	PEA007	Dallas.			A	193,600	5	29	3 @ \$3,871,000		4	\$4,473,000			Add New
Logged in as:	PEA008	Dallas,			BC	193,600	9	67	6 @ \$3,871,000		6	\$4,259,000			Add New
John Q. Bidder	PEA009	Miami,			A	188,800	5	56	2 @ \$3,775,000		2	\$4,153,000			
2000-2020 by Power Auctions LLC.	PEA009	Miami,	, FL		BC	188,800	9	123	8 @ \$3,775,000		8	\$4,153,000		Change	Add New

#### Figure 18 : Actions on the Place Bids screen

The Submit button allows you to submit the bids you entered on the user interface. You can filter the displayed list of products by selecting a watchlist from the Watchlist drop-down or by entering criteria in the filter box. The Upload Bids link opens a dialogue box that allows you to upload a bid file rather than entering and submitting bids through the user interface (see Section 7.6). In the Actions column, you can click on the Change link to change a saved or submitted bid.

The top left portion of the Place Bids screen, the summary bar, shows summary information about the bidder's submitted activity in the round, as well as its current eligibility, its activity upper limit for the round and its required activity (see Figure 19). Whenever you successfully submit bids, the bidding system updates the bidder's requested commitment and submitted activity numbers on the screen.

If the bidder has claimed eligibility for a bidding credit, the bidding system, by default, shows the requested net commitment rather than the requested gross commitment. Additional information (including the bidder's bidding credit discount) can be displayed by clicking on the magnifying glass icon ( $\bigcirc$ ) next to the net requested commitment amount (for more information, see Section 7.4, Figure 32 and Figure 33).

Auction 107 Clock Phase									Reliable Access, Inc	Round Round ends: 1 1:59:48	10:00 AM ET 7/1/2020
\$ Place Bids ★ Watchlists		Commitment Eligibility 854,400 100,000,00		Required Activity 95,000,000 bu		Ipper Limit 10,000 b	Submitted Ac u 97,758,64	40 bu	Submit	Watchlist: All •	
ကု- Bid Summary III My Results III Downloads	LICENSE Market PEA001	Requested Commit		Eligibility 100,000	,000		Required Ac <b>95,000,0</b>	tivity	Activity Upper Limit 100,000,000 bu	Submitted Activity 97,758,640 bu	
	PEA001 PEA002	New York, NY Los Angeles, CA	BC A	757,100 582,300	9 B		7 ummary	\$15,142,00 \$11,646,00			
	PEA002 PEA003	Los Angeles, CA Chicago, IL	BC A	582,300 281,000	5	inform	3	\$11,646,00 \$5,620,00	0 Change		
Logged in as: <b>John Q. Bidder</b>	PEA003 PEA004 PEA004	Chicago, IL San Francisco, CA San Francisco, CA	BC A BC	281,000 270,800 270,800	9 5 9	-1 -1 -1	6 4 2	\$5,620,00 \$5,417,00 \$5,417,00	0 Change		
Eogout	PEA004	Baltimore, MD-Washingto	ABC	235,300	14	4	10	\$4,705,00	3		

#### Figure 19: Bidding summary information

### 7.2. Placing Bids in Round 1 via the User Interface

In Round 1 of Auction 107, each bidder establishes its initial demand for products it wishes to bid on at the opening prices by entering a quantity for those products. You will only be able to bid for products in PEAs the bidder selected on its Form 175. The bidding screen for Round 1 is slightly different than that for subsequent rounds, since no information about previous rounds is yet available.

For Round 1, the first five columns provide information about each product — specifically, its market number and name, license category, bidding units, and supply. The next three columns provide bid information for each product in the current round — specifically, the bidder's bidding status for each product, the quantity of blocks the bidder is demanding, and the associated bid price (see Figure 20).

Auction 107 Clock Phase									Reliable Access, Inc	Round 1	Round ends: 1:59:45	10:00 AM ET 7/1/2020
\$ Place Bids * Watchlists	Requested \$0	Commitment El Product	informati	on <sup>Activity</sup> _,0,000 bu	Activity 95,00	Currer	it round bid i	information	Submit	Watchl	list: All 🔹	
-∕γ- Bid Summary	LICENSE					CURREN	T ROUND		<u>Upload Bids</u>			
My Results	Market		Category	<b>Bidding Units</b>	Supply	Status	Quantity	Price	Actions			
🔶 Downloads	PEA001	New York, NY	А	757,100	5	-		\$15,142,000				
Auction Info	PEA001	New York, NY	BC	757,100	9	-	0	\$15,142,000				
Auction Schedule	PEA002	Los Angeles, CA	А	582,300	5	-	0	\$11,646,000				
Messages (1)	PEA002	Los Angeles, CA	BC	582,300	9	-	0	\$11,646,000				
- Micosuges (1)	PEA003	Chicago, IL	А	281,000	5	-	0	\$5,620,000				
	PEA003	Chicago, IL	BC	281,000	9	-	0	\$5,620,000				
	PEA004	San Francisco, CA	А	270,800	5	-	0	\$5,417,000				
	PEA004	San Francisco, CA	BC	270,800	9	-	0	\$5,417,000				
	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	-	0	\$4,705,000				
	PEA006	Philadelphia, PA	А	227,600	5	-		\$4,552,000				
	PEA006	Philadelphia, PA	BC	227,600	9	-	0	\$4,552,000				
Logged in as: John Q. Bidder	PEA007	Boston, MA	А	203,300	5	-		\$4,066,000				
Logout	PEA007	Boston, MA	BC	203,300	9	-		\$4,066,000				
© 2000-2020 by Power Auctions LLC:	PEA008	Dallas, TX	А	193,600	5	-	0	\$3,871,000				

#### Figure 20: Place Bids screen during Round 1

### 7.2.1. Setting Initial Demands

In Round 1, you can set your initial demand for a quantity of blocks in a category in a PEA by entering a quantity of blocks, up to the supply of the product, in an input field on the Place Bids screen (see Figure 21). This value indicates the number of blocks the bidder demands at the opening price.



FC Auction 107 Clock Phase									Reliable Ac	cess, Inc	Round 1	Round ends: 1:59:45	10:00 AM ET 7/1/2020
\$ Place Bids * Watchlists	Requested \$0	Commitment Eligibility 100,000,00		equired Activity 5,000,000 bu		Upper Limit 00,000 bu	Submitted Acti	vity	!	Submit	Wat	chlist: All 🗸	)
-\/⊱ Bid Summary	LICENSE					CURREN	IT ROUND		Upload Bids				
My Results	Market		Category	<b>Bidding Units</b>	Supply	Status	Quantity	Price	Actions				
✤ Downloads	PEA001	New York, NY	А	757,100	5	1	4	\$15,142,000					
🚔 Auction Info	PEA001	New York, NY	BC		٥	-		\$15 1/2 000		-			
🛍 Auction Schedule	PEA002	Los Angeles, CA	А	Supply	Statu	S	Quantity	P	rice				
Messages (1)	PEA002	Los Angeles, CA	BC	5			4	\$15	,142,000				
, meddaged (i)	PEA003	Chicago, IL	А	Ŭ	•			010	,142,000				
	PEA003	Chicago, IL	BC	281,000	9	-	0	\$5,620,000					
Logged in as:	PEA004	San Francisco, CA	А	270,800	5	-	0	\$5,417,000					
John Q. Bidder	PEA004	San Francisco, CA	BC	270,800	9	-	0	\$5,417,000					
Logout	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	-	0	\$4,705,000					
© 2000-2020 by Power Auctions LLC.	PEA006	Philadelphia PA	A	227.600	5			\$4 552 000					

Only bids that have been submitted will be processed by the bidding system. Once you have entered quantities for all products on which you wish to bid, you must click Submit to submit all of the bids. After you enter a quantity and before you click Submit, the bidding system will display a red exclamation mark (!) in the status column to indicate an unsubmitted bid. After you click Submit, the

bidding system will display a green checkmark ( $\checkmark$ ) in the status column to indicate that the bid has been successfully submitted (see Figure 22). For each product for which a bid has not been entered or submitted, the bidding system displays a gray dash (-) in the status column.

After submitting your bids, the bidding system also updates the requested commitment and submitted activity values displayed at the top of the screen to reflect the prices and bidding units associated with the bidder's total demand.

Auction 107 Clock Phase						R	eliable Acce	ss, Inc	Round ends: 1:59:48	10:00 AM ET 7/1/2020
<ul> <li>Place Bids</li> <li>Watchlists</li> <li>Bid Summary</li> </ul>	Requested \$1,954,8 Watchlist			quired Activity 5,000,000 bu	· · · · ·	pper Limit 1 <b>0,000 bu</b>	Submitted Act 97,758,64	·	Submi	t
My Results	LICENSE					CURRENT	ROUND		<u>Unsubmit All</u>	
🕁 Downloads	Market		Category	<b>Bidding Units</b>	Supply	Status	Quantity	Price	Actions	
Auction Info	PEA001	New York, NY	А	757,100	5	4	4	\$15,142,000	Change	
🛗 Auction Schedule	PEA001	New York, NY	BC	757,100	9	4	7	\$15,142,000	Change	
🛡 Messages	PEA002	Los Angeles, CA	А	582,300	5	1	5	\$11,646,000	Change	
	PEA002	Los Angeles, CA	BC	582,300	9	4	6	\$11,646,000	Change	
	PEA003	Chicago, IL	А	281,000	5	1	3	\$5,620,000	Change	
	PEA003	Chicago, IL	BC	281,000	9	4	6	\$5,620,000	Change	
	PEA004	San Francisco, CA	А	270,800	5	1	4	\$5,417,000	Change	
	PEA004	San Francisco, CA	BC	270,800	9	4	2	\$5,417,000	Change	
Logged in as:	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	4	10	\$4,705,000	Change	
John Q. Bidder	PEA006	Philadelphia, PA	А	227,600	5	4	4	\$4,552,000	Change	
Logout	PEA006	Philadelphia, PA	BC	227,600	9	4	5	\$4,552,000	Change	
© 2000-2020 by Power Auctions LLC.	054007	D		000.000	_			A1000000	01	

### Figure 22: Summary of the submitted bids

The bidding system requires bids to meet certain bidding requirements during bid entry in order to be successfully submitted. For example, the bidding system will display an error message if you attempt to enter bids that exceed the bidder's eligibility, or to enter a quantity that exceeds a product's supply. You may click <u>Unsubmit All</u> above the Actions column to quickly remove all submitted bids. In that case, all of the bidder's bids will be deleted and the Place Bids screen will be the way it was at the beginning of the round.

# 7.2.2. Changing Submitted Bids

As long as Round 1 remains open, you may modify any submitted bids by clicking <u>Change</u> in the Actions column for a product. After you click <u>Change</u>, the quantity input field can be edited, and the bidding system will remove the green checkmark ( $\checkmark$ ) next to the bid to indicate that any modified quantity has not yet been submitted. You can then enter a new quantity for the product. If you would like to delete a bid, change the requested quantity to 0.

Once you have finished making changes, you must click Submit to submit all new bids. Otherwise, the previously submitted bids will remain unchanged in the bidding system.

### 7.2.3. Unsubmitted Bids

During a round, the bidding system will display a warning popup message if you try to navigate away from the Place Bids screen after entering a quantity for a product without submitting the bid. If you then choose to leave the screen, any bids that you entered but did not submit will be lost.<sup>8</sup>

## 7.3. Placing Bids in a Round after Round 1 via the User Interface

At the start of each round after Round 1, the Place Bids screen will display a set of saved simple bids corresponding to the bidder's previous processed demands at the new round's clock prices — referred to as the bidder's default bids. The bidder can quickly bid to maintain its demand by submitting its default bids. Alternatively, a bidder can change its bids before submitting to increase or decrease demand for a product. A bidder may also place switch bids and enter intra-round bid amounts.

## 7.3.1. Default Bids

At the start of a round, the set of default bids shown on the Place Bids screen are saved by the bidding system but not submitted (see Figure 23). Accordingly, for each saved bid, the bidding system displays a red exclamation mark (!) in the status column to indicate that a bid has been saved but not yet submitted. For each product for which no bid is submitted and the bidder does not have processed demand, the bidding system displays a gray dash (-) in the status column.

<sup>&</sup>lt;sup>8</sup> If you have selected a watchlist other than the default "All" watchlist (see Section 7.5) before submitting your bids in Round 1, clicking on the <u>Submit</u> button only submits bids that are part of that watchlist. If you have entered bids that are not part of that watchlist, the bidding system will display a red exclamation mark next to the <u>Submit</u> button.

on 107 Phase									F	Reliable Access,	Inc 2 Round ends	: 2:00 P 7/1/2
Requester \$0	l Commitment Eligibility 100,000,00		equired Activity 5,000,000 bu	· · · · ·		Submitted Activity <b>0 bu </b>	_	ivity Calculate			Watchlist: All	
LICENSE					LAST ROUN	D	ſ	CURRENT	r Round		Upload Bids	
Market		Category	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bids		Status	Quantity	Price	A	tions
PEA001	New York, NY	А	757,100	5	49	4 @ \$15,142,000		1	4	\$16,657,000	Char	ige Add New
PEA001	New York, NY	BC	757,100	9	77	7 @ \$15,142,000		1	7	\$16,657,000	Char	i <b>ge</b> Add New
PEA002	Los Angeles, CA	А	582,300	5	66	5 @ \$11,646,000		1	5	\$12,811,000	Char	ige Add New
PEA002	Los Angeles, CA	BC	582,300	9	56	6 @ \$11,646,000		1	6	\$12,811,000	Char	ige Add New
PEA003	Chicago, IL	А	281,000	5	64	3 @ \$5,620,000		1	3	\$6,182,000	Char	ige Add New
PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000		1	6	\$6,182,000	Char	ige Add New
PEA004	San Francisco, CA	А	270,800	5	16	4 @ \$5,417,000		1	4	\$5,959,000	Char	ige Add New
PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000		1	2	\$5,959,000	Char	ige Add Nev
PEA005	Baltimore, MD-Washingto	. ABC	235,300	14	146	10 @ \$4,705,000		1	10	\$5,176,000	Char	ige Add New
PEA006	Philadelphia, PA	А	227,600	5	61	4 @ \$4,552,000		1	4	\$5,008,000	Char	ige Add New
PEA006	Philadelphia, PA	BC	227,600	9	37	5 @ \$4,552,000		1	5	\$5,008,000	Char	ige Add New
PEA007	Boston, MA	А	203,300	5	5	5 @ \$4,066,000		1	5	\$4,473,000	Char	ige Add New
PEA007	Boston, MA	BC	203,300	9	50	4 @ \$4,066,000		1	4	\$4,473,000	Char	ige Add Nev
PEA008	Dallas, TX	А	193,600	5	29	3 @ \$3,871,000		1.0	3	\$4,259,000	Char	ige Add New
PEA008	Dallas, TX	BC	193,600	9	67	6 @ \$3,871,000		1	6	\$4,259,000	Char	ige Add New
PEA009	Miami, FL	А	188,800	5	56	2 @ \$3,775,000		1	2	\$4,153,000	Char	ige Add New

#### Figure 23: Place Bids screen with unsubmitted default bids

### 7.3.2. Submitting Saved Bids

If you find the default bids acceptable, you can click on the **Submit** button to submit these bids, which maintain the bidder's previous round's processed demand for each product at the new clock prices. Alternatively, you can change and save new bids (see Section 7.3.3 below), and once finished, click on the **Submit** button to submit your saved bids to the bidding system.

If you have selected a watchlist other than the default "All" watchlist (see Section 7.5), then clicking on the Submit button submits only saved bids that are part of that watchlist. If you have saved bids that are not part of that watchlist, those bids will remain unsubmitted and the bidding system will display a red exclamation mark next to the Submit button.

Clicking on the Submit button submits all saved bids for the selected watchlist at once, even if you have filtered the watchlist to display only a subset of the products in the watchlist. Please make sure to review all of your saved bids before submitting.

As in Round 1, once you have submitted a bid for a product, the bidding system will display a green checkmark ( $\checkmark$ ) in the status column to indicate that you have successfully submitted the bid (see Figure 24). After submitting your bids, the bidding system also updates the requested commitment and submitted activity values displayed at the top of the screen to reflect the prices and bidding units associated with the bidder's total demand.

Additionally, if you have submitted all of your saved bids, the bidding system displays a large green checkmark ( $\checkmark$ ) next to the Submit button to indicate that all bids have been submitted.

	ed Commitment Eligibility 2,785,400 100,000,00		quired Activity 5,000,000 bu			ubmitted Activity 7,758,640 bu		4	Submit Fil	tchlist: All
LICENS	E				LAST ROUND		CURREN	T ROUND	Unsut	bmit All
Market		Category	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bids	Status	Quantity	Price	Actions
PEA00	1 New York, NY	А	757,100	5	49	4 @ \$15,142,000	4	4	\$16,657,000	Change A
PEA00	1 New York, NY	BC	757,100	9	77	7 @ \$15,142,000	4	7	\$16,657,000	Change A
PEA00	2 Los Angeles, CA	А	582,300	5	66	5 @ \$11,646,000	4	5	\$12,811,000	Change A
PEA00	2 Los Angeles, CA	BC	582,300	9	56	6 @ \$11,646,000	4	6	\$12,811,000	Change A
PEA00	3 Chicago, IL	А	281,000	5	64	3 @ \$5,620,000	4	3	\$6,182,000	Change A
PEA00	3 Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000	4	6	\$6,182,000	Change A
PEA00	4 San Francisco, CA	А	270,800	5	16	4 @ \$5,417,000	4	4	\$5,959,000	Change A
PEA00	4 San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000	4	2	\$5,959,000	Change A
PEA00	5 Baltimore, MD-Washingto	ABC	235,300	14	146	10 @ \$4,705,000	4	10	\$5,176,000	Change A
PEA00	6 Philadelphia, PA	Α	227,600	5	61	4 @ \$4,552,000	4	4	\$5,008,000	Change A
PEA00	6 Philadelphia, PA	BC	227,600	9	37	5 @ \$4,552,000	4	5	\$5,008,000	Change A
PEA00	7 Boston, MA	А	203,300	5	5	5 @ \$4,066,000	4	5	\$4,473,000	Change A
PEA00	7 Boston, MA	BC	203,300	9	50	4 @ \$4,066,000	4	4	\$4,473,000	Change A
PEA00	B Dallas, TX	А	193,600	5	29	3 @ \$3,871,000	4	3	\$4,259,000	Change A
PEA00	B Dallas, TX	BC	193,600	9	67	6 @ \$3,871,000	4	6	\$4,259,000	Change A
PEA00	9 Miami, FL	А	188,800	5	56	2 @ \$3,775,000	4	2	\$4,153,000	Change A

### Figure 24: Place Bids screen with submitted default bids

Some checks to validate your bids are not performed until you press the Submit button. If the system finds any errors after you press the Submit button, you will need to fix them.

# 7.3.3. Changing Saved or Submitted Bids

As long as the round remains open, you may modify any saved or submitted bids by clicking <u>Change</u> in the Actions column for a product. While editing a bid, the <u>Submit</u> button is disabled until you either click <u>Save</u> to save the bid or <u>Cancel</u> to discard your changes.

You may click <u>Unsubmit All</u> above the Actions column to remove all submitted bids at once. In that case, all of the bidder's bids will be deleted and the Place Bids screen will be the way it was at the beginning of the round.

### 7.3.3.1. Simple Bids

You will be able to edit the quantity and price fields after you click <u>Change</u> to edit a saved bid. While editing the bid, you can specify a new quantity and, if desired, an intra-round price (see Figure 25).

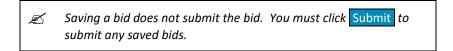
An intra-round bid price may be any price that is greater than or equal to the posted price from the previous round and less than or equal to the clock price for the current round. A bid at an intra-round price indicates that the bidder's demand for that product changes at that price. The bidding system will display the valid range of prices for a product when you hover the cursor over the price field.

#### Figure 25: Changing a simple bid

Auction 107 Clock Phase										Reliable Access, Inc 2	Round ends: 2:02 PM ET 1:57:54 7/1/2020
S Place Bids Watchlists	Requested ( \$2,152,7	Commitment Eligibility 285,400 100,000,000		quired Activity 5,000,000 bu			mitted Activity , <b>758,640 bu</b>			Submit Filter	·
- A- Bid Summary	LICENSE					LAST ROUND		CURRENT	ROUND	Unsubmit All	
🖾 My Results	Market		Category	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bide	Status	Quantity	Price	Actions
Downloads	PEA001	New York, NY	А	757,100	5		4 @ \$15,142,000		4	16,657,000 Advanced Option	is Save Cancel Add New
Auction Info	PEA001	New York, NY	BC	257,100	9	77	7 @ \$15,142,000	4	7	\$16,657,000	Change And New
🗰 Auction Schedule	PEA002	Los Angeles, CA	1	Quantity		Price				Actions	Charge Add New
🏴 Messages	PEA002	Los Angeles, CA	E	aunity		Flice				Actions	Change Add New
	PEA003	Chicago, IL		4		16.657.000	Advanced	Ontions		Save Cancel	Change Add New
	PEA003	Chicago, IL	E	-	<u> </u>	10,051,000	J Auvanceu	options		Save Galicel	Change Add New
	PEA004	San Francisco, CA	A	270,800	5	16	4 @ \$5,417,000	4	4	\$5,959,000	
Logged in as: John Q. Bidder	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000		2	\$5,959,000	Change Add New
Logout	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	146	10 @ \$4,705,000	4	10	\$5,176,000	Change Add New
© 2000-2020 by Power Auctions LLC.	PEA006	Philadelphia, PA	А	227,600	5	61	4 @ \$4,552,000	4	4	\$5,008,000	

In order to replace a simple bid with a switch bid, you can click on <u>Advanced Options</u>. The switch option will be grayed out if it is not available based on the product's supply and your demand for it (for more information, see Section 7.3.3.2 below).

When you have finished, you must click <u>Save</u> to save the bid, or you may click <u>Cancel</u> to discard your changes. After you save the bid, the bidding system will display a red exclamation mark (!) in the status column to indicate that a bid has been saved but not yet submitted.



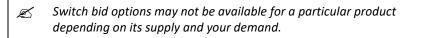
## 7.3.3.2. Switch Bids

A switch bid is a request to move demand for a given number of blocks in a given PEA from one category to another category. A switch bid can only be submitted for the products in PEAs with blocks subject to the Phase I deadline, i.e., in PEAs with two categories. It is not possible to submit a switch bid involving Category ABC.

The switch bid option is displayed when you click <u>Advanced Options</u> after you click <u>Change</u> to edit a saved or submitted bid. The switch bid option may be selected when a switch bid is allowed based on your existing bids; it will be grayed out when it is not available.

Auction 107 Clock Phase												Reliable Acces	ss, Inc 2	Round ends: 1:57:54	2:02 PM ET 7/1/2020
\$ Place Bids % Watchlists	Requested \$0	Commitment	Eligibility 100,000,00		quired Activity 5,000,000 bu			ubmitted Activity	_	ivity Calculato			/atchlist: All		
	LICENSE						LAST ROUND			CURRENT	ROUND		Upload Bids		
	Market			Category	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bids		Status	Quantity	Price		Actions	
	PEA013	Orlando, FL		А	136,900	5	56	2 @ \$2,738,000		1	2	\$3,012,000			
	PEA013	Orlando, FL		BC	136,900	9	47	2 @ \$2,738,000		1	2	\$3,012,000		Change /	Add New
	PEA014	Cleveland, O	н	А	122,900	5	59	3 @ \$2,458,000		1.0	3	\$2,704,000			
	PE,							456,000		1.0	5	\$2,704,000		Change /	Add New
	PE.	A BC	2		2,519,000		mple	290,000		A BC	2	2,519,000	Simple Switch to BC	Save Car	ncel Add New
	PE.		0	s	\$2,519,000	SI	vitch to BC	290,000		1	0	\$2,519,000	Switch to BC	Change /	
	PE,							270,000		!	4	\$2,503,000		Change /	
John Q. Bidder	PEA016	Seattle, WA		BC	113,800	9	33	9 @ \$2,275,000			9	\$2,503,000		Change /	
Logout	PEA017	Minneapolis	-St. Paul, MN	А	101,700	5	23	2 @ \$2,034,000		1	2	\$2,238,000			
	PEA017	Minneapolis	-St. Paul, MN	BC	101,700	9	7	7 @ \$2,034,000		1	7	\$2,238,000		Change /	Add New

#### Figure 26: Selecting bid types from the advanced bid options menu



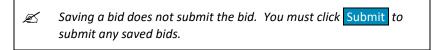
After selecting "Switch to A" or "Switch to BC" from <u>Advanced Options</u>, the quantity input field becomes a quantity drop-down menu for the "switch from" category, which includes only valid quantities, and the "switch to" category is displayed with the resulting quantity (see Figure 27).

To enter a switch bid, select a new quantity for the product you are switching from and a price at which you would like the switch to occur. The price may be an intra-round price. The quantity that you select for the "switch from" product indicates the quantity that you would like to have of that product after bid processing, not the number of blocks you wish to move to the "switch to" category. The quantity drop-down displays the valid quantities from which you can select. Once you have specified the price and quantity, the screen shows the price (intra-round or clock) at which you would like the switch to occur.

FC Auction 107 Clock Phase										Reliable Access	s, Inc Round 2	Round ends: 1:57:54	2:02 PM ET 7/1/2020
\$ Place Bids * Watchlists	Requested Co <b>\$0</b>	mmitment Eligibility 100,000,000		iired Activity 000,000 bu		Ipper Limit 10,000 bu	Submitted Activity	Activity Ca	58,640 bu		atchlist: All		
	LICENSE					LAST ROU	ND	CURI	RENT ROUND	!	Upload Bids		
🖾 My Re	Market		Cotogony	Didding Unito	Cumphy	Agg Domon	d My Drossond Dida	Statur	Quantity	Price		Actions	
	290,000	А	0 -		2,51	9,000	Switch to BC 👻		2	\$3,012,000		Change A	dd New
Auctio		BC	6						2	\$3,012.000		Change A	dd New
	290,000	1	3		\$2,51	19,000			3	\$2,704,000			dd New
	PEA014 (	Cleveland, OH	BC	122,900	9	33	5 @ \$2,458,000	1	5	\$2,704,000		Change A	dd New
	PEA015	Phoenix, AZ	_ <u>A</u>	114,500	5	61	3 @ \$2,290,000		A 0 • IC 6	2,519,000	Switch to BC 👻	Save Can	cel Add New
	PEA015	Phoenix, AZ	BC	114,500	9	- 113	3 @ \$2,290,000	1	3	\$2,519,000		Change A	dd New
	PEA016	Seattle, WA	А	113,800	5	25	4 @ \$2,275,000	1	4	\$2,503,000			
Logged in as: John Q. Bidder	PEA016	Seattle, WA	BC	113,800	9	33	9 @ \$2,275,000	1	9	\$2,503,000		Change A	dd New
Logout	PEA017	Minneapolis-St. Paul, MN	А	101,700	5	23	2 @ \$2,034,000	1	2	\$2,238,000			
© 2000-2020 by Power Auctions LLC.	PEA017	Minneapolis-St. Paul, MN	BC	101,700	9	7	7 @ \$2,034,000	1	7	\$2,238,000		Change A	dd New

#### Figure 27: Entering a switch bid

When you have finished, you must click <u>Save</u> to save the bid, or you may click <u>Cancel</u> to discard your changes. After you save the bid, the bidding system will display a red exclamation mark (!) in the status column for both categories to indicate that the bid has been saved but not yet submitted.



For the "switch from" product, the bidding system displays the resulting quantity if the requested switch bid were to be fully applied. For the "switch to" product, the bidding system displays a blank value for the quantity. The bidding system also shows the details of the switch bid next to the Price column for both products (see Figure 28).

#### Figure 28: Saved switch bids

Auction 107 Clock Phase											Reliable Acce	ess, Inc 2	Round ends: 1:57:54	2:02 PM ET 7/1/2020
\$ Place Bids * Watchlists	Requested (	Commitment Eligibility 100,000,00		uired Activity ,000,000 bu			Submitted Activity	_	ty Calcula 9 <b>7,758,6</b>	itor 640 bu		Watchlist: All		
	LICENSE					LAST ROUN	D	0	CURREN	T ROUND		Upload Bids		
	Market		Category	Bidding Units	Supply	Agg Demand	My Processed Bids	S	tatus	Quantity	Price		Action	s
ψ 1	DEV013	Orlando El	٨	136.000	5	56	2 @ \$2 738 000			2	\$3,012,000		Change	Add New
3 @ \$2,290,	000	1.00	0	\$	2,519,0	00 3 to	BC →		CI	hange	\$3,012,000		Change	Add New
≝, 3 @ \$2,290,	000	!		ŝ	2,519,0	00 3 fro	om A 🗲				\$2,704,000		Change	
Messages	I LNUTT	orcreama, orr	50	122,500	-	00	0 @ \$2,700,000		•		\$2,704,000		Change	Add New
	PEA015	Phoenix, AZ Phoenix, AZ		114,500	5	61	3 @ \$2,290,000		1	0	\$2,519,000	3 to BC 🔸	Change	Add New
	PEA015	Phoenix, AZ	BC	114,500	9	113	3 @ \$2,290,000		1		\$2,519,000	3 from A 🗲		
	PEA016	Seattle, WA	А	113,800	5	25	4 @ \$2,275,000		1	4	\$2,503,000		Change	
	PEA016	Seattle, WA	BC	113,800	9	33	9 @ \$2,275,000		1	9	\$2,503,000		Change	Add New
John Q. Bidder	PEA017	Minneapolis-St. Paul, MN	А	101,700	5	23	2 @ \$2,034,000		1	2	\$2,238,000		Change	Add New
© 2000-2020 by Power Auctions LLC.	PEA017	Minneapolis-St. Paul, MN	BC	101,700	9	7	7 @ \$2,034,000		1	7	\$2,238,000		Change	Add New

### 7.3.4. Entering Multiple Intra-Round Bids

You may add multiple intra-round bids for the same product by clicking <u>Add New</u> in the Actions column for that product. You may submit up to 5 bids for the same product in a round. Multiple intra-round bids must either all decrease or all increase in quantity as the price increases, must be of the same bid type (i.e., simple or switch), and must be for different quantities at different prices.

For a simple bid, after you click <u>Add New</u>, you can specify a new quantity and price for the additional bid (see Figure 29).

Auction 107 Clock Phase										Relia	ole Access	, Inc Round 2	Round ends: 1:57:54	2:02 PM ET 7/1/2020
\$ Place Bids % Watchlists	Requested (	Commitment Eligibility 100,000,00		equired Activity 5,000,000 bu	Activity Up 120,000		ubmitted Activity ) <b>bu</b> 🔔	Activity Calco	ulator 3,940 bu	Subr		tchlist: All	-	
-∕ <u>∤-</u> Bid Summary	LICENSE					LAST ROUND		CURRE	NT ROUND		U	pload Bids		
10 @ \$4,705,	,000	1	11	\$4	,800,000			С	hange	Add Nev	v		Actions	
			12	4,	900,000			s	ave C	ancel D	elete		Change A	dd New dd New
Auction Science	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000	1	2	\$5	,959,000		Change A	dd Nev:
	PEA005	Bahinste, MD-Washingto	ABC	235,300	14	146	10 @ \$4,705,000	1.1	11	\$4	,800,000		Change A	dd New
	PEA005	Baltimore, MD-Washingto	ABC						12	4,	900,000		Save Can	cel Delete
	PEA006	Philadelphia, PA	А	227,600	5	61	4 @ \$4,552,000	1	4	\$5	,008,000			
	PEA006	Philadelphia, PA	BC	227,600	9	37	5 @ \$4,552,000	1	5	\$5	,008,000		Change A	dd New
Logged in as: John Q. Bidder	PEA007	Boston, MA	А	203,300	5	5	5 @ \$4,066,000	1	5	\$4	,473,000			
Logout	PEA007	Boston, MA	BC	203,300	9	50	4 @ \$4,066,000	1	4	\$4	,473,000		Change A	dd New
2000-2020 by Power Auctions LLC.	PEA008	Dallas, TX	А	193,600	5	29	3 @ \$3,871,000	1	3	\$4	,259,000		Change A	dd New

#### Figure 29: Enter new bids as intra-round simple bids

For a switch bid, after you click <u>Add New</u>, you may specify a new switch bid in the same way you entered the initial switch bid (see Section 7.3.3.2).

Once you have finished entering the quantity and price for your intra-round bid, you must click <u>Save</u> in order to save the new bid, or you may alternatively click <u>Cancel</u> to remove the intra-round bid without saving.

You may repeat these steps to enter and save additional intra-round bids. When there are multiple intra-round bids for a product, you may delete an intra-round bid by clicking <u>Delete</u> in the Actions column (see Figure 30). After clicking <u>Delete</u>, you may then undelete that intra-round bid by clicking on <u>Undelete</u> in the Actions column.

#### 2:02 PM ET Auction 107 Clock Phase Round ends 1:57:54 Reliable Access, Inc Watchlist: All Required Activity Activity Upper Limit Activity Calculator S Place Bids mitted Activity \$0 100,000,000 bu 95,000,000 bu 120,000,000 bu 0 bu 📤 © 98,229,240 bu Filte LICENSE LAST ROUND CURRENT ROUND Upload Bids Market Category Bidding Units Supply Agg Demand My Processed Bids Status Quantity Price Actions PEA003 Chicago, IL BC 281,000 9 103 6 @ \$5.620.000 6 \$6,182,000 Change Add New 1 PEA004 San Francisco, CA А 270,800 5 16 4 @ \$5,417,000 4 \$5,959,000 Change PEA004 San Francisco, CA BC 270,800 9 31 2 @ \$5,417,000 1 2 \$5,959,000 Change Add New 14 ABC 235,300 10 @ \$4,705,000 11 \$4,800,000 Change Add New PEA005 Baltimore, MD-Washingto... 146 1 Change Delete PEA005 Baltimore, MD-Washingto.. 12 \$4,900,000 ABC PEA006 Philadelphia, PA 10 @ \$4,705,000 1 11 \$4,800,000 Change Add New PEA006 Philadelphia, PA PEA007 Boston, MA 1 12 \$4,900,000 Change Delete PEA007 Boston, MA PEA008 Dallas, TX 193,600 29 3 @ \$3,871,000 \$4,259,000 Change Add I PEA008 Dallas, TX BC 193,600 9 67 6 @ \$3,871,000 6 \$4,259,000 Change Add New PEA009 Miami, FL Α 188,800 56 2 @ \$3,775,000 2 \$4,153,000 Change Add Net 188,800 8 @ \$3,775,000 \$4,153,000 Change Add New PEA009 Miami, FL BC 9 123 1 8 John Q. Bidder PEA010 Houston, TX 176,800 7 4 @ \$3,535,000 \$3,889,000 А 5 Change Add Nev PEA010 Houston, TX BC 176,800 9 74 9 @ \$3,535,000 1 9 \$3,889,000 Change Add New

#### Figure 30: Delete additional intra-round bids

After you save a new intra-round bid, the bidding system will display a red exclamation mark (!) in the status column to indicate that the bid has been saved but not yet submitted.

Saving a bid does not submit the bid. You must click Submit to submit any saved bids.

## 7.3.5. Unsubmitted Bids

If you try to navigate away from the Place Bids screen with bids that have been saved but have not yet been submitted, the bidding system displays a large red exclamation mark (!) next to the Submit button to indicate that at least one bid has been saved but not submitted.

If a bidder fails to submit a bid for a product for which it has processed demand, the bidding system will consider that to be a "missing bid," which will be processed as a simple bid request for a quantity of zero at the previous round's posted price. A missing bid will not necessarily reduce the bidder's processed demand to zero for the product after the round, however. The bidding system will apply as much of the missing bid reduction request as it can, subject to the overall restriction that aggregate demand cannot fall below supply of a given product.

## 7.4. Monitoring Commitment and Activity

For each round, the bidding system calculates a bidder's eligibility, required activity, and activity upper limit, based upon its processed activity from the previous round (or, for Round 1, based upon its upfront payments), the activity requirement percentage, and the activity limit percentage. The bidding system displays these values in addition to the financial commitment and activity associated with the bidder's submitted bids. Every time you submit bids, the bidding system updates your requested commitment and submitted activity (see Figure 31). Once you have submitted bids in a round (and before the round has closed), the values shown in the summary bar assume that your submitted bids will be applied by the bidding system during bid processing after the round. Your processed activity for the round may be less or more than your submitted activity if the bidding system cannot apply all of your bids in full.

Figure 31:	Summary	bar on	the Place	Bids screen
------------	---------	--------	-----------	-------------

Auction 107 Clock Phase											ss Connection L	LC 2 Round e		2:02 PM ET 7/1/2020
Place Bids Watchlists	Requested f \$84,949,	-		1	tivity Upp 305,68		ted Activity 2,000 bu			7		Natchlist: All	•	
-√- Bid Summary	ICENSE					LAST ROUND			CURRENT R	OUND		Unsubmit All	1	
🖆 My Results	Market	<u></u>	Requested N	let Commitmen	t E	ligibility		Required	Activity	Activit	y Upper Limit	Submitted Activity	Action	IS
✤ Downloads	PEA028	San Artonio, TX	\$84,949,	000 <del>Q</del>	5	5,254,737	' bu	4,992,0	000 bu	6,30	5,685 bu	4,992,000 bu	hange	Add New
🖨 Auction Info	PEA028	San Antonio, Y		<b>⊼</b>									hange	Add New
🛱 Auction Schedule	PEA035	Austin, TX	A	48, <mark>9</mark> 00	5	11	4 @ \$977	7,000	4	4	\$1,075,000		Change	
	PEA035	Austin, TX	BC	Click here to	9	129	8 @ \$977	7,000	4	8	\$1,075,000		Change	Add New
🖵 Messages	PEA047	Brownsville, TX	А	expand	5	40	4 @ \$758	3,000	4	4	\$834,000		Change	
	PEA047	Brownsville, TX	BC	37,900	9	19	8 @ \$758	3,000	4	8	\$834,000		Change	Add New
Logged in as: Jane Bidder	PEA049	Albany, NY	А	36,700	5	27	4 @ \$734	4,000	4	4	\$808,000		Change	Add New
Logout	PEA049	Albany, NY	BC	36,700	9	98	7 @ \$734	1,000	4	7	\$808,000		Change	Add New
© 2000-2020 by Power Auctions LLC.	PEA067	Sarasota, FL	ABC	26,900	14	167	10 @ \$53	38,000	4	10	\$592,000		Change	Add New

If a bidder has claimed eligibility for a bidding credit, the bidding system, by default, displays the requested net commitment (the requested commitment less any bidding credit discount) associated with your submitted bids.

If you have a small business bidding credit, you may also view the requested commitment, the small business bidding credit discount (capped and uncapped), and the uncapped discount for small markets by clicking on the magnifying glass icon ( $\bigcirc$ ) next to the requested net commitment.

Auction 107 Clock Phase							١	Vireless Coi	nnection LLC	Round 2	Round ends: 2 1:57:53	2: <b>02 PM ET</b> 7/1/2020
\$ Place Bids * Watchlists	Requested Net Commitment Eligibility \$84,949,000 \u2262 5,254,7		iired Activity 9 <b>2,000 bu</b>	Activity Up <b>6,305,6</b>		ted Activity 2,000 bu		<b>~</b> (	Submit	Watchlist: <i>Filter</i>		
	Requested CommitmentDiscount Capi\$109,949,000\$25,000,0		d Net Commit <b>9,000</b>	ment	Discount Uncappe \$27,487,250	d Discount Uncapped \$8,062,750	l (Small Markets)					
My Results Downloads	LICENSE				LAST ROUND		CURRENT	ROUND		Unsubmit	<u>t All</u>	-
	Requested Net Commitme \$84,949,000 @		ility 5 <b>4,737</b>		quired Activity 992,000 b			Submitted <b>4,992,0</b>				1
	Requested Commitment \$109,949,000	Discount <b>\$25,00</b>			ted Net Comn ) <b>49,000</b>	nitment	Discount ( \$27,48		Discount ( <b>\$8,062</b> ,		(Small Markets)	
	PEA047 Brownsville, TX	BC	37,900	9	19	8 @ \$758,000	4	8	\$834,000		Chang	ge Add New
Logged in as: Jane Bidder	PEA049 Albany, NY	А	36,700	5	27	4 @ \$734,000	1	4	\$808,000		Chang	ge Add New
Logout	PEA049 Albany, NY	BC	36,700	9	98	7 @ \$734,000	4	7	\$808,000	1	Chang	ge Add New
© 2000-2020 by Power Auctions LLC.	PEA067 Sarasota, FL	ABC	26,900	14	167	10 @ \$538,000	4	10	\$592,000	1	Chang	ge Add New

Figure 32: Expanded summary bar for bidder with small business bidding credit

If you have a rural service provider bidding credit, then clicking on the magnifying glass icon ( $\mathcal{Q}$ ) next to the requested net commitment will show your requested commitment and your rural service provider bidding credit discount (capped and uncapped), as seen in Figure 33.

Auction 107 Clock Phase											nd ends: 57:53	2:02 PM ET 7/1/2020
\$ Place Bids * Watchlists	Requested N \$346,543	let Commitment Eligibility 3,000 q 17,058,211		equired Activity 6,205,300 bu		y Upper Limi 5 <b>9,854 b</b> u	· · · · · · · · · · · · · · · · · · ·			Submit Filter	• •	
-∿- Bid Summary ≌ My Results	Requested 0 \$356,543			ed Net Commitmen	t	Discount I \$53,48						
	LICENSE					LAST R	OUND	CURREN	IT ROUND	Unsubmit All		
	N arket										Action	s
	PEA005	Requested Net Comm	nitment	Eligibility			Required Activity	Activity	Upper Limit	Submitted Activity	Change	Add New
	PEAJ06	\$346,543,000 @	2	17,058	3,211	bu	16,205,300 bu	20,46	69,854 bu	16,205,300 bu	Change	Add New
	PEA006	Requested Commitm	ont	Discount Cap	nod	Deque	sted Net Commitment		Discount Ur	acanad	Change	Add New
	PEA010										Change	
	PEA010	\$356,543,000		\$10,000,0	000	\$346	5,543,000		\$53,481	,450	Change	Add New
	PEA012	Detroit, MI	А	154,100	5	53	3 @ \$3,082,000	4	3	\$3,391,000	Change	
Logged in as: <b>Sam Bidder</b>	PEA012	Detroit, MI	BC	154,100	9	53	6 @ \$3,082,000	4	6	\$3,391,000	Change	Add New
Logout	PEA014	Cleveland, OH	А	122,900	5	59	4 @ \$2,458,000	4	4	\$2,704,000	Change	
© 2000-2020 by Power Auctions LLC.	PEA014	Cleveland, OH	BC	122,900	9	33	8 @ \$2,458,000	1	8	\$2,704,000	Change	Add New

#### Figure 33: Expanded summary bar for bidder with rural service provider bidding credit

If the bidder's eligibility is reduced to zero after bid processing, you cannot place bids in subsequent rounds, and the bidding system will display a message indicating that while you may not bid again, you may still continue to access the bidding system for the clock phase.

#### 7.4.1. Activity Calculator

In all rounds after Round 1, the bidding system displays an activity calculator that reflects the activity that would correspond to your saved bids and any submitted bids for which you have not saved any changes (see Figure 34). This calculator allows you to determine, before you submit your saved bids, whether your saved bids would satisfy the activity requirement if they were fully applied by the bidding system or whether they would exceed your eligibility or your activity upper limit. The activity calculator is red when your activity is less than the required activity or greater than your eligibility, and it turns green when your activity is between those values. The system will allow you to submit bids as long as the activity does not exceed your activity upper limit.<sup>9</sup> If you attempt to submit bids with activity that exceeds the activity upper limit, the bids will not be submitted and the system will display a message to that effect.

As you modify bids, the calculator updates to reflect the sum of your saved but not yet submitted bids and your submitted bids. This is in contrast to the submitted activity value that is displayed in the summary bar, which only reflects bids actually submitted to the bidding system. The activity calculator is shown only if you have saved but not submitted bids.

The activity calculator value reflects your activity as if all saved and submitted bids were to be fully applied during bid processing.

<sup>&</sup>lt;sup>9</sup> Although you can submit bids that exceed your eligibility up to your activity upper limit, the system will not apply bids that exceed your eligibility.

#### Figure 34: Activity calculator

FCC Auction 107 Clock Phase										Reliable	e Access, Inc	Round 2	Round ends: 1:57:53	2:02 PM ET 7/1/2020
\$ Place Bids * Watchlists	Requested \$	Commitment Eligibility 100,000,00		uired Activity ,000,000 bu			Submitted Activ	ity	Activity Calculator 92,458,940 bu	! s		atchlist: All		
-∕γ- Bid Summary	LICENSE					LAST ROUND	)		CURRENT ROUND			Upload Bids		
🖾 My Results	Market		Category	<b>Bidding Units</b>	Supply	Agg Demand	My Proc				Price		Action	าร
✤ Downloads	PEA001	New York, NY	А	757,100	5	49	4 @ \$1	Activ	ity Calculator		16,657,000		Change	Add New
🚔 Auction Info	PEA001	New York, NY	BC	757,100	9	77	7 @ \$1	0	92,458,940	) bu	16,657,000		Change	Add New
🗰 Auction Schedule	PEA002	Los Angeles, CA	А	582,300	5	66	5 @ \$1	<u> </u>	52,100,510	, <u></u>	12,811,000		Change	
Messages	PEA002	Los Angeles, CA	BC	582,300	9	56	6 @ \$11,6	46,000	! 6	-	\$12,811,000		Change	Add New
- Messayes	PEA003	Chicago, IL	А	281,000	5	64	3 @ \$5,62	20,000	! 3		\$6,182,000		Change	
	PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,62	20,000	! 6		\$6,182,000		Change	Add New
	PEA004	San Francisco, CA	А	270,800	5	16	4 @ \$5,41	7,000	! 4		\$5,959,000		Change	
	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,41	7,000	! 2		\$5,959,000		Change	Add New
Logged in as: John Q. Bidder	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	146	10 @ \$4,7	'05,000	! 10		\$5,176,000		Change	Add New
Logout	PEA006	Philadelphia, PA	А	227,600	5	61	4 @ \$4,55	2,000	! 4		\$5,008,000		Change	
© 2000-2020 by Power Auctions LLC.	PEA006	Philadelphia, PA	BC	227,600	9	37	5 @ \$4,55	2,000	! 5		\$5,008,000		Change	Add New

Your processed activity may be less than that indicated during the round in the summary bar and the activity calculator if some of your bids cannot be applied in full by the bidding system.

## 7.5. Watchlists and Filtering

Watchlists and filters make it easier to bid for a subset of products through the user interface. In addition to the watchlist of "All" of the bidder's products, the bidding system provides a number of smaller system-created watchlists, and bidders may create up to ten additional custom watchlists. Only the products in the selected watchlist are displayed on the Place Bids screen. When bids are submitted when a watchlist other than the set of "All" products is selected, only saved bids for products in that watchlist are submitted — other saved bids for products not included in the watchlist are not submitted.

In addition to watchlists, you can further limit the products displayed on the Place Bids screen by entering display criteria into the filter on the Place Bids screen. Filtering, however, only limits the display of products; filtering does not affect the submission of bids. If bids are submitted when a filter is applied, all saved bids in the selected watchlist are submitted, not just those that are displayed with the filter.

## 7.5.1. Selecting and Submitting Bids Using Watchlists

By default, the bidding system displays the bidding system-defined "All" watchlist on the Place Bids screen. If you want to select a different watchlist, you may select it from the Watchlist drop-down menu (see Figure 35).

Figure 35: Watchl	ist drop-down mer	าน
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Auction 107 Clock Phase									Reliable Access, Inc	Round 2	Round ends: 1:57:53	2:02 PM I 7/1/2020
S Place Bids ★ Watchlists	Requested \$2,152,7	Commitment Eligibility 785,400 100,000,000		uired Activity ,000,000 bu	· · · · ·		ubmitted Activity 7,758,640 bu		All	nlist:	All A BC	
√- Bid Summary	LICENSE					LAST ROUND		CUR	A	<u>it All</u>	ABC	
My Results	Market		Category	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bids	Statu	вс		Excess Demand No Excess Demand	ons
✤ Downloads	PEA001	New York, NY	А	757,100	5	49	4 @ \$15,142,000	4	50		Non-zero Bids	Add New
Auction Info	PEA001	New York, NY	BC	757,100	9	77	7 @ \$15,142,000	4	ABC		Unsubmitted	Add New
Auction Schedule	PEA002	Los Angeles, CA	А	582,300	5	66	5 @ \$11,646,000	4	Excess Demand		California	Add New
	PEA002	Los Angeles, CA	BC	582,300	9	56	6 @ \$11,646,000	4		2	High demand A	Add New
Messages	PEA003	Chicago, IL	А	281,000	5	64	3 @ \$5,620,000	4	No Excess Demand		Chang	e Add New
	PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000	4	Non-zero Bids		Chang	e Add New
	PEA004	San Francisco, CA	А	270,800	5	16	4 @ \$5,417,000	4	Lines there it is a		Chang	e Add New
	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000	4	Unsubmitted		Chang	e Add New
	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	146	10 @ \$4,705,000	4		i.	Chang	e Add New
	PEA006	Philadelphia, PA	А	227,600	5	61	4 @ \$4,552,000	4	Oplifansia		Chang	e Add New
	PEA006	Philadelphia, PA	BC	227,600	9	37	5 @ \$4,552,000	4	California		Chang	e Add New
Logged in as: John Q. Bidder	PEA007	Boston, MA	А	203,300	5	5	5 @ \$4,066,000	4	High demand A	ł.	Chang	e Add New
Logout	PEA007	Boston, MA	BC	203,300	9	50	4 @ \$4,066,000	1	4 \$4,413,000		Chang	e Add New
000-2020 by Power Auctions LLC.	PEA008	Dallas, TX	А	193,600	5	29	3 @ \$3,871,000	4	3 \$4,259,000		Chang	e Add New

The bidding system displays all of your available watchlists in the watchlist drop-down menu, with system-defined watchlists at the top, followed by custom watchlists below the dotted line.

To display only the products corresponding to a watchlist, select the watchlist name from the watchlist drop-down menu. When using a watchlist to bid, the <u>Submit</u> button only submits saved bids for the products that are included in that watchlist. If a bid has been previously saved but not submitted for a product that is not part of the selected watchlist, the saved bid will not be submitted.

If you have an unsubmitted bid, the bidding system will display a red exclamation mark (!) next to the Submit button to indicate that at least one bid has been saved but not submitted (see Figure 36).

#### Figure 36: Bid for watchlist products

Auction 107 Clock Phase										Reliable Acces	ss, Inc 2 Round ends: 2:02 PM E 1:57:53 7/1/2020
Place Bids Watchlists	Requested \$2,054,0	Commitment Eligibility 045,400 100,000,00		quired Activity 5,000,000 bu			ubmitted Activity 3,273,740 bu	Activity Calcula		Wate Submit	chlist: Excess Demand •
	LICENSE					LAST ROUND		CURRENT	r ROUND	Un	isubmit All
d Summary	Market		Category	<b>Bidding Units</b>	Supply	Agg Demand	My Processed Bids	Status	Quantity	Price	Actions
Results	PEA001	New York, NY	А	757,100	5	49	4 @ \$15,142,000	4	4	\$16,657,000	Change Add New
vnloads	PEA001	New York, NY	BC	757,100	9	77	7 @ \$15,142,000	4	7	\$16,657,000	Change Add New
on Info	PEA002	Los Angeles, CA	А	582,300	5	66	5 @ \$11,646,000	4	5	\$12,811,000	Change Add New
on Schedule	PEA002	Los Angeles, CA	BC	582,300	9	56	6 @ \$11,646,000	4	6	\$12,811,000	Change Add New
iges	PEA003	Chicago, IL	A	281,000	5	64	3 @ \$5,620,000	4	3	\$6,182,000	Change Add New
	PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000	4	6	\$6,182,000	Change Add New
	PEA004	San Francisco, CA	А	270,800	5	16	4 @ \$5,417,000	4	4	\$5,959,000	Change Add New
	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000	4	2	\$5,959,000	Change Add New
	PEA005	Baltimore, MD-Washingto	ABC	235,300	14	146	10 @ \$4,705,000	4	10	\$5,176,000	Change Add New
	PEA006	Philadelphia, PA	А	227,600	5	61	4 @ \$4,552,000	4	4	\$5,008,000	Change Add New
	PEA006	Philadelphia, PA	BC	227,600	9	37	5 @ \$4,552,000	4	5	\$5,008,000	Change Add New
	PEA007	Boston, MA	BC	203,300	9	50	4 @ \$4,066,000	4	4	\$4,473,000	Change Add New
in as:	PEA008	Dallas, TX	А	193,600	5	29	3 @ \$3,871,000	4	3	\$4,259,000	Change Add New
. Bidder	PEA008	Dallas, TX	BC	193,600	9	67	6 @ \$3,871,000	4	6	\$4,259,000	Change Add New
gout	PEA009	Miami, FL	A	188,800	5	56	2 @ \$3,775,000	4	2	\$4,153,000	Change Add New
Power Auctions LLC.				100.000		100	0.0.00775.000			A	<b>2</b>

In the example above, the bidder has submitted all its saved bids for products in the "Excess Demand" watchlist, but has unsubmitted bids for some other products, as indicated by the red exclamation mark (!) next to the Submit button.

## 7.5.2. System-Defined Watchlists

The bidding system includes a number of pre-defined watchlists, some of which are only available after Round 1 (see Table 3).

Watchlists	Descriptions	Availability
All	All products across all the PEAs that the bidder selected on its Form 175	Always
А	All Category A products across all the PEAs that the bidder selected on its Form 175	Always
вс	All Category BC products across all the PEAs that the bidder selected on its Form 175	Always
ABC	All Category ABC products across all the PEAs that the bidder selected on its Form 175	Always
Excess Demand	All of the bidder's products for which aggregate demand in the previous round was greater than the supply of the product	After Round 1
No Excess Demand	All of the bidder's products for which aggregate demand in the previous round was less than or equal to the supply of the product	After Round 1

#### Table 3: System-defined watchlists

Watchlists	Descriptions	Availability
Non-zero Bids	All of the bidder's products for which the bidder has placed a bid for a quantity greater than zero in the current round or has a quantity greater than 0 in the My Processed Bids column	After Round 1
Unsubmitted	All of the bidder's products with saved bids that have not been submitted	Always

## 7.5.3. Creating Custom Watchlists

You may create and view custom watchlists via the Watchlists screen as soon as the bidding system is available. While each authorized bidder may create a watchlist, all watchlists are shared among the authorized bidders for a bidder. Additionally, there is a limit of ten custom watchlists at one time for a bidder.

From the Watchlists screen, you may create a new custom watchlist by clicking on the **Create** button to access the Create Watchlist screen (see Figure 37). On this screen, you can define a watchlist by entering a name and an optional description in the respective input fields, then selecting the checkbox next to the products that you would like to include in the custom watchlist.<sup>10</sup> Once you have finished selecting products, click on the **Create** button to finish creating the custom watchlist. Each custom watchlist must have a unique name and at least one product selected. At any point, you may click on the **Cancel** button to return to the Watchlists screen without creating a new custom watchlist.

<sup>&</sup>lt;sup>10</sup> The system-defined watchlists are named "All", "A", "BC", "ABC", "Excess Demand", "No Excess Demand", "Nonzero Bids", and "Unsubmitted". You cannot use any of these names for a custom watchlist.

#### Figure 37: Create Watchlist screen

Auction 107 Clock Phase			Reliable Acces	s, Inc 1	Round ends: 1:59:45	<b>10:00 AM ET</b> 7/1/2020
<ul> <li>\$ Place Bids</li> <li>★ Watchlists</li> <li>小 Bid Summary</li> <li>☑ My Results</li> <li>♦ Downloads</li> <li>♠ Auction Info</li> </ul>	Create Watchlist To create a watchlist, select selected all of the products Name * California	from the table below th that you wish to include	e products you wish to include. You may filter on any in your watchlist, click on the Create button. Description All California markets Cancel	column to quickly fi	nd particular product	s. Once you have
🛗 Auction Schedule	Selected (Y / N)	Market Number	Market Name	Category	y Bio	lding Units
Messages			, CA			
		PEA002	Los Angeles, CA	А		582,300
		PEA002	Los Angeles, CA	BC		582,300
		PEA004	San Francisco, CA	А		270,800
		PEA004	San Francisco, CA	BC		270,800
		PEA018	San Diego, CA	А		92,900
Logged in as: John Q. Bidder		PEA018	San Diego, CA	BC		92,900
Eogout © 2000-2020 by Power Auctions LLC.		PEA022	Sacramento, CA	A		81,700

In order to more quickly select products, you may enter filter criteria in the input field at the top of each column to filter your results. While filtered, you may click the Select All or the Unselect All buttons to select or unselect the checkbox for all products that meet the filter criteria.

For example, to quickly create a custom watchlist of all A products in the Top 20 PEAs (PEA001 through PEA020), first enter "A" in the Category filter to display only A products. Next, in the Market Number filter, enter "PEA00" to show only PEA001 through PEA009, then click on the Select All button to select these 9 products (see Figure 38). Next, change the Market Number filter to "PEA01" to show PEA010 through PEA019, then click on the Select All button. Finally, change the Market Number filter to "PEA02" to show PEA020 through PEA029, but instead of selecting all products, select the checkbox next to PEA020, then click on the Create button to create the custom watchlist.

Auction 107 Clock Phase				Reliable Access, Inc 1	Round ends: 10:00 AM ET 1:59:45 7/1/2020
\$ Place Bids * Watchlists	Edit Watchlist				
-A- Bid Summary	To create a watchlist, select from wish to include in your watchlis	n the table below the products you t, click on the Create button.	u wish to include. You may filter on any column to quickly	find particular products. Once you have	e selected all of the products that you
Sy Bu Summary	Name * High demand A	Description	List of all category A products in high demand (PEA001 -	PEA020)	
🕁 Downloads				A	
🖨 Auction Info	Update Select All	Unselect All Cancel	]		
🗰 Auction Schedule	Selected (Y / N)	Market Number	Market Name	Category	Bidding Units
🛡 Messages		PEA00		А	
		PEA001	New York, NY	А	757,100
		PEA002	Los Angeles, CA	А	582,300
		PEA003	Chicago, IL	А	281,000
		PEA004	San Francisco, CA	А	270,800
		PEA005	Baltimore, MD-Washington, DC	ABC	235,300
t see the see		PEA006	Philadelphia, PA	А	227,600
Logged in as: John Q. Bidder		PEA007	Boston, MA	А	203,300
© 2000-2020 by Power Auctions LLC.		PEA008	Dallas, TX	A	193,600

#### Figure 38: Using filters to create a custom watchlist of Category A products

Clicking on the **Create** button will create a new custom watchlist that includes every product that you selected, irrespective of any filters that you currently have in place. After you have clicked to create the custom watchlist, the bidding system returns you to the Watchlists screen, where you may view the list of custom watchlists (see Figure 39).

#### Figure 39: Watchlists screen

FCC Auction 107 Clock Phase					Relia	able Acces	s, Inc	Round 1	Round ends: 1:59:45	10:00 AM ET 7/1/2020
\$ Place Bids			Watchl	ist updated successfully						
★ Watchlists -/γ- Bid Summary	Watchlists									
🖾 My Results	Create									
Downloads	Name	Description		Count	Actions					
Auction Info	California	All California m	arkets	13 products selected	Edit D	)elete				
Messages	High demand A	List of all categ	ory A products in high	20 products selected	Edit D	)elete				
	You may create a maximum of 10 watchlists.									
Logged in as: John Q. Bidder										
■ 2000-2020 by Power Auctions LLC.										

On the Watchlists screen, you may modify any custom watchlists by clicking on the watchlist name or the <u>Edit</u> link in the Actions column to access the Edit Watchlist screen. From the Edit Watchlist screen, you may select or unselect the checkboxes next to products that you wish to add to or remove from the

custom watchlist, change the watchlist name, and change the watchlist description. Once you finish making modifications, click on the Update button to save your changes, or click on the Cancel button to return to the Watchlists screen without modifying your custom watchlist.

Finally, you may delete a custom watchlist by selecting <u>Delete</u> in the Actions column of the Watchlists screen. There is no prompt to confirm deleting the watchlist, and this action permanently removes the custom watchlist.

## 7.5.4. Selecting Bids Using Filters

On the Place Bids screen, you may filter the products displayed in a selected watchlist by entering filter criteria in the Filter input field to the right of the <u>Submit</u> button (see Figure 40). Filtering hides all products in the selected watchlist that do not match the filter criteria, which may be any value in the Market, Category, Bidding Units, or Price columns. For example, if you have the default "All" watchlist selected and you enter "Houston" in the Filter field, the bidding system will hide all of your products that do not have that word as part of the Market.

Filtering simply hides products within a watchlist that do not match the filter criteria. Filtering does not affect which saved bids are submitted when you click on the Submit button. If you click to submit while a filter is applied, all saved bids that are part of the selected watchlist are submitted, regardless of whether they match the filter criteria and are displayed on the Place Bids screen. For example in the filtered list below, clicking the Submit button would submit all saved bids in the "All" watchlist, not only the bids matching the filter.

C Auction 107 Clock Phase									Reli	able Access, In	c 2	Round ends: 2 1:57:53	:02 PM E 7/1/2020
Place Bids Watchlists	Requested \$0	Commitment	Eligibility 100,000,000 bu	Required Activity 95,000,000 bu			Submitted Activity <b>0 bu </b>	Activity Calcul		Submit	Watchlist: AI Chicago	- [X]	
	LICENSE					LAST ROUN	D	CURREN	IT ROUND		Upload Bids		
	Market		Categ	ory Bidding Units	Supply	Agg Demand	My Processed Bids	Status	Quantity	Price		Actio	ns
	PEA003	Chicago, IL	A	281,000	5	64	3 @ \$5,620,000	1	3	\$6,182,000		Change	
	PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000	1	6	\$6,182,000		Change	Add Nev
ogged in as: ohn Q. Bidder													
Logout													
2020 by Power Auctions LLC.													

#### Figure 40: Filtering on the Place Bids screen

## 7.6. Submitting Bids via File Upload

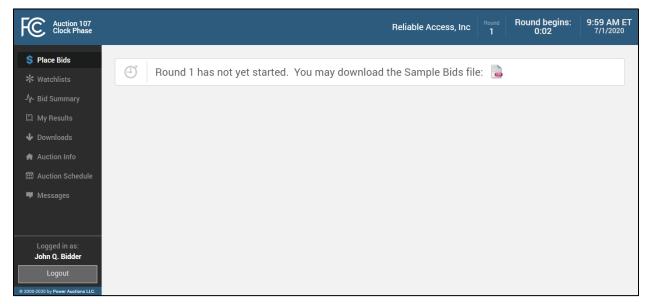
In each round, a bidder may submit its bids by uploading a properly formatted comma-separated values (CSV) bid file. Full details about the specifications for bid upload files can be found in the Auction 107 clock phase file formats document located on the Auction 107 website in the Education section (available at <a href="http://www.fcc.gov/auction/107">www.fcc.gov/auction/107</a>).

## 7.6.1. Downloading Sample Bids File

For each round, you may download a Sample Bids file, which includes all of the bidder's eligible products and, starting in Round 2, the default saved bids.

Prior to the opening of a round but after prices have been announced for the round, you may download the Sample Bids file for that round on the Place Bids screen by clicking on the CSV file icon (see Figure 41).





While the round is open, you may download the Sample Bids file for that round by clicking on the <u>Upload Bids</u> link beneath the Filter input field (see Figure 18). After you click <u>Upload Bids</u>, the bidding system displays a popup window containing a link to the Sample Bids file (see Figure 42) and bid upload instructions. To download your Sample Bids file, click on the CSV file icon.<sup>11</sup>

<sup>&</sup>lt;sup>11</sup> If you have previously submitted bids in the round, you must first unsubmit those bids before accessing the Sample Bids file.

Microsoft Edge users: When you click on the bid template, make sure you SAVE the file in a known directory. If you OPEN the file and SAVE it without specifying a folder, the file is saved into the temporary Edge download directory. When you later try to upload the file from this temporary directory, the system may not be able to read it and will treat it as an empty file.

## Figure 42: Upload Bids popup with instructions

FC Auction 107 Clock Phase											
S Place Bids		Commitment Eligibilit	Jpload Bid	Required Activity	Activity U	pper Limit	Submitted Activit	×			
Jy- Bid Summary											
🗐 My Results	Market			e Sample Bids file sired changes to t		ts in the file.		Bids	Status	Quantity	Price
Downloads				nodified file in com			V) format.	000	1		
🊔 Auction Info		New York, NY	Note: after uplo successful, or re	ading, the system eport any errors if	will submit b the upload fa	ids if the uplo. ils.	ad was	000	1		
🗐 Auction Schedule		Los Angeles, CA	Choose File			Upload & Si	a construction of the	000	4		
👎 Messages		Los Angeles, CA	Choose File	to the chosen				000	11		
or messages		Chicago, IL	A	281,000	5	64	3 @ \$5,620	0.000	1		
									1		
									1		
									1		
									1		
									1		
Logged in as: John Q. Bidder									1		
Logout									1		
# 2000-2020 hv Power Auditions I LD			BC		9	50	4 @ \$4,06	5,000	1	4	

The specification for the Sample Bids file differs for Round 1 and later rounds. Details about the specifications for sample files may be found in the Auction 107 clock phase file formats document located on the Auction 107 website in the Education section (available at <a href="https://www.fcc.gov/auction/107">www.fcc.gov/auction/107</a>).

### 7.6.2. Uploading a Bid File

You can upload a bid file while a bidding round is open via the Upload Bids popup on the Place Bids screen. You can access the Upload Bids popup by clicking <u>Upload Bids</u> beneath the Filter input field (see Figure 18).

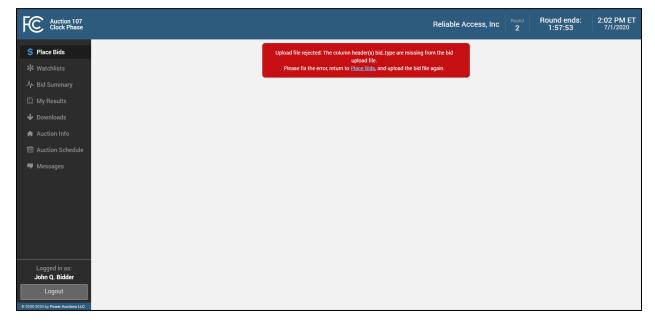
If you have already submitted bids in the round, the <u>Upload Bids</u> link does not appear, and instead is replaced with the <u>Unsubmit All</u> link. In order to upload a bid file, you must first click <u>Unsubmit All</u> to remove all submitted bids.

From the Upload Bids popup, choose your bid file and click on the Upload & Submit Bids button (see Figure 42). If there are no errors, the bids indicated in your bid file will be submitted and you will be redirected to the Place Bids screen, where your submitted bids will be shown. The bidding system will

display a green checkmark ( $\checkmark$ ) in the status column to indicate that each bid has been successfully submitted to the bidding system. Once you have successfully submitted bids via a bid upload, you may make changes to the bids through the user interface if you choose.

If there are one or more errors in the bid file, the bidding system will reject the entire upload and display a message on the Place Bids screen with an explanation of why the upload was unsuccessful (see Figure 43).<sup>12</sup> After you fix the errors in your file, you may then upload your bid file again.





<sup>&</sup>lt;sup>12</sup> Only the first error condition found for the file or for each bid is shown. If the file cannot be analyzed, the Place Bids screen will only display an error message over a blank page.

## 8. Verifying Bids

Only submitted bids are processed by the bidding system. The bidding system provides bidders with two ways to verify that their bids were submitted properly. You should verify your bids in each round of the auction before the round closes.

## 8.1. Bid Summary

Once Round 1 opens and throughout the clock phase, you may verify the bids that have been submitted in a round (and in past rounds) on the Bid Summary screen. This screen displays all bids submitted in a round with the associated submitted activity and requested commitment.<sup>13</sup>

The layout of the Bid Summary screen is shown in Figure 44. The first five highlighted columns display product information. Starting in Round 2, the next two columns show previous round bid information. The next column displays the clock price for the selected round, and the last six columns display information about the bid in the selected round — specifically, the quantity, bid amount, price point percentage, bid type, the name of the authorized bidder that submitted the bid, and the time of bid submission.

For each column, you may filter the table by entering a value in the input field at the top of the column. You may also re-sort the table by clicking on a column header to sort by the values in that column in ascending order. Clicking on the column header a second time re-sorts by the values in that column in descending order.

<sup>&</sup>lt;sup>13</sup> A bid may have been submitted by you, by another authorized bidder for the bidder, by a telephonic bid assistant entering bids at the behest of an authorized bidder, or by the system when the round closes if the bidder had missing bids.

Auction 107 Clock Phase										Reliabl	e Access,	Inc 2	Round ends: 1:57:53	2:02 PM E 7/1/2020
\$ Place Bids ★ Watchlists 小 Bid Summary	Bid Sur Requeste \$2,152	ed C Product inf	ormatior	n Requ	/01/2020 at uired Activity 000,000 b	info	ous round prmation v	Selected rour clock price 58,640 pu	id			d round bid rmation		
My Results Downloads	Market Number	Market Name	Cat	Bidding Units	Supply	Agg Demand	My Processed Bids	Clock Price	Qty	Bid Amount	Price Point %	Bid Type	Placed By	Timestamp (ET)
Auction Info														
<ul> <li>Auction Schedule</li> <li>Messages</li> </ul>	PEA001	New York, NY	A	757,100	5	49	4 @ \$15,142,000	\$16,657,000	4	\$16,657,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA001	New York, NY	BC	757,100	9	77	7 @ \$15,142,000	\$16,657,000	7	\$16,657,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA002	Los Angeles, CA	A	582,300	5	66	5 @ \$11,646,000	\$12,811,000	5	\$12,811,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA002	Los Angeles, CA	BC	582,300	9	56	6 @ \$11,646,000	\$12,811,000	6	\$12,811,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA003	Chicago, IL	A	281,000	5	64	3 @ \$5,620,000	\$6,182,000	3	\$6,182,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000	\$6,182,000	6	\$6,182,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA004	San Francisco, CA	A	270,800	5	16	4 @ \$5,417,000	\$5,959,000	4	\$5,959,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
Logged in as: John Q. Bidder	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000	\$5,959,000	2	\$5,959,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
Logout	PEA005	Baltimore, MD- Washington, DC	ABC	235,300	14	146	10 @ \$4,705,000	\$5,176,000	10	\$5,176,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07

#### Figure 44: Layout of the Bid Summary screen

At the top of the Bid Summary screen is information regarding the requested commitment, eligibility, required activity, activity upper limit, and submitted activity for the bidder in that round, similar to the information on the Place Bids screen (see Figure 45). Unlike the Place Bids screen, however, you may select a previous round to display values relating to that round.

If a bidder has claimed eligibility for a bidding credit, the bidding system will display by default the requested net commitment, taking into account any bidding credit discounts and bidding credit discount caps. You may also view the requested commitment, the bidding credit discount (capped and uncapped), and the uncapped discount for small markets, if applicable, by clicking on the magnifying glass icon ( ) next to the requested net commitment (for more information see Section 7.4, Figure 32 and Figure 33).

Auction 107 Clock Phase										Reliable /	Access, I	nc 2	Round ends: 1:57:53	2:02 PM E 7/1/2020
<ul> <li>\$ Place Bids</li> <li>* Watchlists</li> <li>Ar Bid Summary</li> </ul>		d Commitment Eligi		Requi	01/2020 at 14:0 red Activity 00,000 bu	Activity	by John Q. Bidder Upper Limit Activity D0,000 bu 97,75	i8,640 bu 🖷	· · ·			·		
<ul> <li>My Results</li> <li>Downloads</li> <li>Auction Info</li> </ul>	Market Number	Bid Sur	nmai	y Ro	und 2 🗸	Gen	erated on 07/01	1/2020 at 14:0	2:07 ET t	by John Q. Bi	Price			mestamp (ET)
Auction Schedule	PEA00r	Requeste \$2,152	d Comn	nitment	Eligibility	0,000	· · · · ·	ed Activity 00,000 bu		Upper Limit 00,000 bu	Activ <b>97,</b>	<sup>rity</sup> 758,640	bu 븕	)20-07-01 \$:02:07
	PEA001 PEA002	New York, NY Los Angeles, CA	BC A	757.100 Round 9	9 selector	77 66	7 @ \$15,142,000 Bidding sun	s16,657,000	7 ion	\$16,657,000 \$12,811,000	100.00	Simple Simple	Print screen I	1020-07-01 07 1000 17-01 07
	PEA002	Los Angeles, CA	BC	582,300	9	56	6 @ \$11,646,000	\$12,811,000	6	\$12,811,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA003	Chicago, IL	А	281,000	5	64	3 @ \$5,620,000	\$6,182,000	3	\$6,182,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA003	Chicago, IL	BC	281,000	9	103	6 @ \$5,620,000	\$6,182,000	6	\$6,182,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
	PEA004	San Francisco, CA	А	270,800	5	16	4 @ \$5,417,000	\$5,959,000	4	\$5,959,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
Logged in as: John Q. Bidder	PEA004	San Francisco, CA	BC	270,800	9	31	2 @ \$5,417,000	\$5,959,000	2	\$5,959,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07
© 2000-2020 by Power Austions LLC.	PEA005	Baltimore, MD- Washington, DC	ABC	235,300	14	146	10 @ \$4,705,000	\$5,176,000	10	\$5,176,000	100.00	Simple	John Q. Bidder	2020-07-01 14:02:07

#### Figure 45: Additional information and actions on Bid Summary screen

You may select previous rounds on the Bid Summary screen by selecting the round number from the round drop-down menu, located at the top of the screen.

For the current round, if you have bids that are saved but not submitted, the bidding system displays a warning message about your missing bids at the top of the Bid Summary screen. If you had saved bids that were not submitted in a previous round, the bidding system displays only the summary of submitted bids with a warning that there were saved bids that were not submitted in the previous round.

At all times you may print a record of submitted bids in a round by clicking on the printer icon on the Bid Summary screen.

## 8.2. My Bids

You may also verify the bids that have been submitted via the My Bids download file, which can be accessed from the Downloads screen. The My Bids download provides up-to-date information about bids submitted during the round and can be accessed at any time after Round 1 opens (see Figure 46). Details about the specifications for downloadable files may be found in the Auction 107 clock phase file formats document located on the Auction 107 website in the Education section (available at www.fcc.gov/auction/107).

#### Figure 46: My Bids download

FC Auction 107 Clock Phase			Reliable Access, Inc 2	Round ends: 1:57:53	2:02 PM ET 7/1/2020
\$ Place Bids ★ Watchlists 小 Bid Summary	Downloads Round 2 Y				
🖾 My Results	Format	Description			
Downloads Auction Info	2	My Bids			
🛱 Auction Schedule		My Results			
🛡 Messages		My Product Status			
		My Bidder Status			
	<b>a</b>	My Bidder Markets			
Logged in as: John Q. Bidder					
Logout					
© 2000-2020 by Power Auctions LLC.					

The My Bids file provides the bidder's submitted bids that will be processed after the round. The My Bids file does not contain bids that were submitted earlier in a round but subsequently changed. The My Bids file contains information identical to that shown on the Bid Summary screen (see Section 8.1).

It is strongly recommended that, before the round ends, you print or save the Bid Summary screen and/or download the My Bids file for a record of your bidding actions.

## 9. Viewing Results

You can view information about results in several places: overall auction results are available in the Public Reporting System (PRS), and results specific to a bidder are available on the bidder's My Results screen and are downloadable from the bidder's Downloads screen.

## 9.1. Auction Results

Information about the overall results of Auction 107 are available to bidders and to the general public on the PRS. The PRS can be accessed by the public at <u>auctiondata.fcc.gov</u> or from a link on the Auction 107 website (<u>www.fcc.gov/auction/107</u>) in the Results section.

## 9.2. Bidder Results

You may view the results of bid processing for your bidder via the My Results screen. Only products for which a bid was submitted in the round and/or for which the bidder had processed demand in the previous round are displayed on the My Results screen. You may also download information about these results from the Downloads screen. For details on bid processing, see Appendix 5: Bid Processing.

## 9.2.1. My Results screen

After results for a round have been posted, you may view the results of bid processing for bids that were submitted in the round on the My Results screen. You may also view the results of bid processing for past rounds. This screen displays information for all products for which the bidder had processed demand in the round, as well as products for which the bidder had processed demand greater than zero in the previous round.

The layout of this screen is similar to that of the Bid Summary screen and is shown in Figure 47 below. The first four columns provide information about each product — specifically, the market number and name, license category, and supply. The next three columns provide information about the product's aggregate demand, the bidder's processed demand, and the posted price of the product. Clock prices for the next round are displayed in the last column once the information for the next round has been updated in the bidding system (usually at the same time or very soon after the round results have been posted).

#### Figure 47: Layout of the My Results screen

Auction 107 Clock Phase					Reliable	Access, Inc 3	Round ends: 1:55:31	10:04 AM ET 7/2/2020
\$ Place Bids ★ Watchlists 小 Bid Summary	My Res <sup>Commitm</sup> \$2,145,		Round 3 Eligibility			ound 3 Activity Upper Limit		
☑ My Results ↓ Downloads	Market Number	Product inform	ation outegory	Supply	Result Round Demand	ts of selected round	1 2 Posted Price	Next round clock price
Auction Info								
	PEA001	New York, NY	А	5	49	4	\$16,657,000	\$18,323,000
🗰 Auction Schedule	PEA001	New York, NY	BC	9	77	7	\$16,657,000	\$18,323,000
🗭 Messages	PEA002	Los Angeles, CA	А	5	66	5	\$12,811,000	\$14,093,000
	PEA002	Los Angeles, CA	BC	9	56	6	\$12,811,000	\$14,093,000
	PEA003	Chicago, IL	А	5	62	3	\$6,182,000	\$6,801,000
	PEA003	Chicago, IL	BC	9	103	6	\$6,182,000	\$6,801,000
	PEA004	San Francisco, CA	А	5	19	4	\$5,959,000	\$6,555,000
	PEA004	San Francisco, CA	BC	9	36	2	\$5,959,000	\$6,555,000
	PEA005	Baltimore, MD-Washington, DC	ABC	14	146	10	\$5,176,000	\$5,694,000
Logged in as:	PEA006	Philadelphia, PA	А	5	61	4	\$5,008,000	\$5,509,000
John Q. Bidder	PEA006	Philadelphia, PA	BC	9	37	5	\$5,008,000	\$5,509,000
Logout	PEA007	Boston, MA	А	5	5	5	\$4,066,000	\$4,473,000
© 2000-2020 by Power Auctions LLC.	PEA007	Boston, MA	BC	9	50	4	\$4,473,000	\$4,921,000

You may filter the data shown in the table by entering a value in the input field at the top of each column. You may sort the table by clicking on a column header to sort the values in that column in ascending order. Clicking on the column header a second time re-sorts the values in that column in descending order.

The top of the My Results screen shows the bidder's processed commitment and processed activity for the round, and the bidder's eligibility, activity upper limit and activity requirement in the next round (see Figure 48).

If a bidder has claimed eligibility for a bidding credit, the bidding system will display by default the net commitment, taking into account any bidding credit discounts and bidding credit discount caps. You may also view the commitment, the bidding credit discount (capped and uncapped), and the uncapped discount for small markets, if applicable, by clicking on the magnifying glass icon ( ) next to the net commitment.

You may select previous rounds on the My Results screen by selecting the round number from the round drop-down menu, located at the top of the screen. If you have selected a previous round, the My Results screen will display values for the selected round.

You may print a record of the bid results for a round by clicking on the printer icon on the My Results screen.



Auction 107 Clock Phase				Rel	liable Access, Inc	Round 3	Round ends: 1:59:48	10:00 AM ET 7/2/2020
<b>\$</b> Place Bids * Watchlists 小 Bid Summary	My Res <sup>Commitm</sup> \$2,145		Round 3 Eligibility 100,000,000 bu	Round 3 Required Activ 95,000,000 bu	ity Round 3 Activity U 120,000,000			
<ul> <li>My Results</li> <li>Downloads</li> <li>Auction Info</li> <li>Auction Schedule</li> </ul>	Com	Results Round 2 v mitment Activity 145,915,400 97,758,		3	d 3 Required Activity 100,000 bu		3 Activity Upper Limit	
Messages	PEA002	Los Angeles. CA	А	5	66	5	\$12,811, <mark>000</mark>	\$1 1.093.000
	PEA002	Los Round selector	BC	Bidding summar	y <mark>5</mark> 6	6	\$12,811 Print	
					-			screen here
	PEA003	Chi	А	information	52	3	\$6,182	screen here
	PEA003 PEA003	Chi Chicago, IL	A BC	information 9	52 103	3 6		\$6,801,000
							\$6,182	
	PEA003	Chicago, IL	BC	9	103	6	\$6,182 \$6,182,000	\$6,801,000
	PEA003 PEA004	Chicago, IL San Francisco, CA	BC A BC	9 5	103 19	6 4	\$6,182 \$6,182,000 \$5,959,000	\$6,801,000 \$6,555,000
Logged in as:	PEA003 PEA004 PEA004	Chicago, IL San Francisco, CA San Francisco, CA	BC A BC	9 5 9	103 19 36	6 4 2	\$6,182 \$6,182,000 \$5,959,000 \$5,959,000	\$6,801,000 \$6,555,000 \$6,555,000
Logged in as: John Q. Bidder	PEA003 PEA004 PEA004 PEA005	Chicago, IL San Francisco, CA San Francisco, CA Baltimore, MD-Washington, DC	BC A BC ABC	9 5 9 14	103 19 36 146	6 4 2 10	\$6,182 \$6,182,000 \$5,959,000 \$5,959,000 \$5,176,000	\$6,801,000 \$6,555,000 \$6,555,000 \$5,694,000
	PEA003 PEA004 PEA004 PEA005 PEA006	Chicago, IL San Francisco, CA San Francisco, CA Baltimore, MD-Washington, DC Philadelphia, PA	BC A BC ABC A	9 5 9 14 5	103 19 36 146 61	6 4 2 10 4	\$6,182 \$6,182,000 \$5,959,000 \$5,959,000 \$5,176,000 \$5,008,000	\$6,801,000 \$6,555,000 \$6,555,000 \$5,694,000 \$5,509,000

## 9.2.1.1. Messages and Details

If a bidder has one or more bids that were not fully applied, the My Results screen contains a message at the top of the page, and a Details column appears with a <u>Details</u> link you may click to obtain more information about any bid for a product that was not applied in full (see Figure 49).

Auction 107 Clock Phase						RSP Compar	ny <sup>Round</sup> Ro	ound ends: 1 1:59:45	0:00 AM ET 7/2/2020
\$ Place Bids ★ Watchlists 小- Bid Summary	My Res Net Comm \$334,2	nitment Activity		nd 3 Eligibility ,495,053 bu	Round 3 Required A				
My Results						s not applied in ful			
🕁 Downloads			S	e the Detai	IS IINK(S) DEIOW TO	r further informatio	n.		
🖨 Auction Info	Market Number	Market Name	Category	Supply	Round 2 Agg Demand	My Processed Demand	Round 2 Posted Price	Round 3 Clock Price	Details
🛗 Auction Schedule									]
🛡 Messages	PEA005	Baltimore, MD- Washington, DC	ABC	14	146	10	\$5,176,000	\$5,694,00	D
	PEA006	Philadelphia, PA	А	5	61	4	\$5,008,000	\$5,509,00	0
	PEA006	Philadelphia, PA	BC	9	37	7	\$5,008,000	\$5,509,00	D
	PEA010	Houston, TX	А	5	5	1	\$3,889,000	\$4,278,00	0 <u>Close</u>
	Simple bid	to reduce demand to 0 @	\$3,889,000: 1 bl	ock was not ap	plied due to insufficie	ent aggregate demand.			
	PEA010	Houston, TX	BC	9	72	8	\$3,889,000	\$4,278,00	0
	PEA012	Detroit, MI	А	5	52	3	\$3,391,000	\$3,731,00	D
	PEA012	Detroit, MI	BC	9	53	6	\$3,391,000	\$3,731,00	0
	PEA014	Cleveland, OH	А	5	56	4	\$2,704,000	\$2,975,00	0
	PEA014	Cleveland, OH	BC	9	33	8	\$2,704,000	\$2,975,00	D
Logged in as:	PEA019	Portland, OR	А	5	46	3	\$1,996,000	\$2,196,00	0
Sam Bidder	PEA019	Portland, OR	BC	9	9	7	\$1,996,000	\$2,196,00	0 <u>Details</u>
Logout	PEA022	Sacramento, CA	А	5	40	4	\$1,797,000	\$1,977,00	0
	PEA022	Sacramento, CA	BC	9	7	3	\$1,633,000	\$1,797,00	0

#### Figure 49: Details message on the My Results screen for bids that were not applied in full

## 9.2.2. Downloadable Results

You can also download a number of different files containing results on the Downloads screen. Full details about the specifications for downloadable files may be found in the Auction 107 clock phase file formats document located on the Auction 107 website in the Education section (available at <a href="https://www.fcc.gov/auction/107">www.fcc.gov/auction/107</a>).

You may view the results of a round via several files, which can be downloaded from the Downloads screen: My Results, My Products Status, and My Bidder Status, described below. If a file is not yet available for the round, it will be grayed out and cannot be downloaded (see Figure 50).

Further, you can download additional auction information through the My Bids and My Bidder Markets downloads, as described below.

#### Figure 50: Downloads screen

Auction 107 Clock Phase			Reliable Access, Inc	Round 2	Round ends: 1:57:53	2:02 PM ET 7/1/2020
\$ Place Bids ★ Watchlists 小 Bid Summary	Downloads Round 2 ~					
🖆 My Results	Format	Description				
Downloads Auction Info		My Bids				
Auction Schedule		My Results				
		My Product Status				
	<b>e</b>	My Bidder Status				
		My Bidder Markets				
Logged in as: John Q. Bidder Logout						

The My Bids file is discussed above in Section 8.2.

The My Results file provides the results of bid processing for a bidder in a given round for all products for which the bidder had processed demand in the previous round and for all products for which a bid was submitted in the round. For each product, the file gives the processed demand, posted price, and the aggregate demand. If a bid was not fully applied, the file provides an indication and details about why the bid was not fully applied. The information contained in the My Results file mirrors the information contained on the My Results screen (see Section 9.2.1 for details about the My Results screen).

The My Product Status file provides the status after bid processing in a round for each product that the bidder selected on Form 175. For each product, the file gives the posted price, aggregate demand and the clock price in the next round. The file also provides supporting information about each product such as the round opening price, clock price, supply, bidding units, and population.

The My Bidder Status file lists the bidder's eligibility, required activity, and submitted activity in the round, as well as the bidder's processed activity, eligibility, activity upper limit, and required activity for the next round. The file also includes financial information: the bidder's requested commitment and its processed commitment for each round.

The My Bidder Markets file lists all PEAs available in the auction with their market numbers and market names. It also indicates which PEAs the bidder has selected on its Form 175.

## Appendix 1: System Troubleshooting

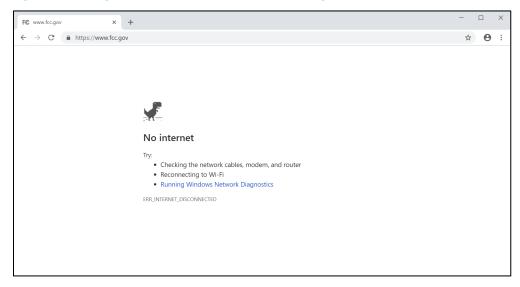
If you continue to experience problems after following the troubleshooting instructions, please call the FCC Auctions Technical Support at (877) 480-3201, option nine; (202) 414-1250; or (202) 414-1255 (TTY) (8:00 a.m.–6:00 p.m. ET on business days).

### Situation 1: Page cannot be displayed error message on first access



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$\leftarrow$ $\rightarrow$ O $\odot$ https://www		好	Z∕≡	¢		
	$\wedge$					
	You're not connected					
	And the web just isn't the same without you. Let's get you back online!					
	Try:					
	Checking your network cables, modem, and routers					
	Reconnecting to your wireless network					
	Running Windows Network Diagnostics					
	ERR.INTERNET_DISCONNECTED					

Figure 52: Google Chrome connection error message



If any of the screens shown above appear, complete the following steps:

- Confirm that the computer has external internet access. Try to access a common site on the internet such as <u>www.google.com</u>. If this is unsuccessful, the computer does not have external internet access.
- Confirm that you are using the correct URL for the bidding system.
- Confirm that your organization has not blocked access to the site. Your organization may only allow you to access certain external web sites. Check with your IT department.
- You may not have selected the "OK" button when the message appeared stating that you are about to enter a secure site. Re-start the browser and try again ensuring you click on the "OK" button.
- Confirm that you are using the correct browser version (see bidding system requirements in Section 3.1) by performing the following steps:
  - Edge: First, click on the tools icon ... (which can be found in the top right-hand corner of your browser). Then click "Settings" and scroll down to "About Microsoft Edge."
     Make note of the version number.
  - Chrome: First, click on the tools icon : (which can be found in the top right-hand corner of your browser). Then click "Help" followed by "About Google Chrome." Make note of the version number.

### Situation 2: Cookies must be enabled error message

The bidding system requires that cookies are enabled on your browser. If cookies are disabled, you will see a message stating that cookies should be enabled.

To enable cookies in Microsoft Edge (Chromium), complete the following steps:

- Click on the tools icon ... in the top right-hand corner of your browser.
  - Click on "Settings" and "Site permissions".
  - Under "Cookies and site data" slide the circle to the right next to the words "Allow sites to save and read cookie data (recommended)" as shown in Figure 53.
  - Then, close the "Settings" tab.

Settings	<ul> <li>Site permissions / Cookies and site data</li> </ul>	
✓ Search settings	Allow sites to save and read cookie data (recommended)	
<ul> <li>Profiles</li> <li>Privacy and services</li> </ul>	Block third-party cookies When on, sites can't use your browsing activity across different sites to personalize ads. Some sites may not work properly.	•
<ul> <li>Appearance</li> <li>On startup</li> </ul>	See all cookies and site data	>
New tab page     Site permissions	Block No sites added	Add
⊥ Downloads	Clear on exit To clear all cookies and site data when you close Microsoft Edge, go to Clear browsing data on close.	Add
Printers	No sites added	
System  Reset settings	Allow No sites added	Add
<ul> <li>Phone and other devices</li> <li>About Microsoft Edge</li> </ul>	INO SITES ADDRED	

#### Figure 53: Enabling cookies in Microsoft Edge (Chromium)

To enable cookies in Google Chrome, complete the following steps:

- Click on the tools icon in the top right-hand corner of your browser.
  - Click on "Settings".
  - In the "Privacy and security" section, click on the "Site settings" area, and then click on "Cookies and site data" area to display a screen similar to that shown in Figure 54.
  - Click on "Allow all cookies".
  - Then close the "Settings" tab.

Figure 54: Enabling cookies in Google Chrome

Sett	ings	λ Search settings	
•[	You and Google	← Cookies and other site data ② Q Search	
Ê	Autofill		
٢	Safety check		
•	Privacy and security		
۲	Appearance		
Q	Search engine		
	Default browser		
ப	On startup		
Adva	nced	General settings	
۲	Languages	Allow all cookies	^
<u>+</u>	Downloads	Sites can use cookies to improve your browsing experience, for example, to keep you signed in the second state of the second s	or
÷	Printing	<ul> <li>to remember items in your shopping cart</li> </ul>	
Ť	Accessibility	Sites can use cookies to see your browsing activity across different sites, for example, to personalize ads	
-	*		

### Situation 3: JavaScript must be enabled error message

The bidding system requires that JavaScript is enabled on the browser used. If JavaScript is disabled, there will be a message stating that "JavaScript in this browser is not enabled or is not working."

To enable JavaScript in Microsoft Edge (Chromium), complete the following steps:

- Click on the tools icon ... in the top right-hand corner of your browser.
  - Click on "Settings" and "Site permissions".
  - Under "JavaScript" slide the circle to the right next to the words "Allowed (recommended) in Figure 55.
  - Then, close the "Settings" tab.

#### Figure 55: Enabling JavaScript in Microsoft Edge (Chromium)

Search settings	<ul> <li>Site permissions / JavaScript</li> </ul>	
	Allowed (recommended)	
Profiles	Block	Add
Privacy and services	No sites added	
Appearance		
🖒 On startup	Allow	Add
🔤 New tab page	No sites added	
😨 Site permissions		
🗫 Languages		
🗗 Printers		
묘 System		
C Reset settings		
Phone and other devices		
About Microsoft Edge		

To enable JavaScript in Google Chrome, carry out the following steps:

- Click on the tools icon in the top right-hand corner of your browser.
  - Click on "Settings".
  - In the "Privacy and security" section, click on the "Site settings" area, and then click on the "JavaScript" area to display a screen similar to that shown in Figure 56.
  - Slide the circle to the right next to the words "Allowed (recommended)".
  - Then close the "Settings" tab.



Sett	ings	Q. Search settings	
÷	You and Google	< → JavaScript	Q, Search
Ê	Autofill		
0	Privacy and security	Allowed (recommended)	
۲	Appearance	Block	Add
Q	Search engine	No sites added	
	Default browser	No sites added	
Ċ	On startup	Allow	Add
Adva	nced	No sites added	
۲	Languages		
<u>+</u>	Downloads		
Ð	Printing		
Ť	Accessibility		
٩	System		
Ð	Reset and clean up		
Exter	isions		
Abou	t Chrome		

#### Situation 4: Page cannot be displayed error message when navigating to new screen

If you have been using the bidding system successfully and "page cannot be displayed" appears when you click on a link or a button, then complete the following steps:

- Click on the Refresh/Reload button to reload the page.
  - If that is successful, please verify any actions that you were taking when the message was displayed. If you were in the middle of placing bids, you should verify your bids using the Bid Summary screen. You may need to place your bids again.
- Re-navigate to the bidding system URL and, if prompted, log in again.
- If that is successful, please verify any actions that you were taking, as discussed above.
- Your internet connection may have gone down. Confirm that your computer has external internet access. Try to access a common site on the internet such as <u>www.google.com</u>. If this is unsuccessful, the computer does not have external internet access.
- The bidding system may be down. To confirm whether the bidding system is down, first confirm that you have internet access and then attempt to access the auction portal and the login screen (see Section 3.2). If you are unable to view either page, or the page states that the bidding system is unavailable, then the bidding system may be down and you should call the Auction Bidder Line telephone number provided with the registration materials.

#### Situation 5: Page has expired error message when back button is clicked

Do not use the browser's back button to access a previous screen. To move between screens, use the links and buttons in the bidding system.

#### Situation 6: Computer or web browser crashes

If the browser crashes or the computer freezes, it is recommended that you reboot the machine (or use a different machine) to access the bidding system.

Please review any actions that you were taking when the computer crashed. If you were in the middle of placing bids, you should verify your bids using the Bid Summary screen. You may need to place your bids again.

If the computer crashes while you are using the bidding system, you may access the bidding system using a different computer. When a user logs in to a second computer, whether the user has logged out of the first computer or not, the second login will automatically cause the user to be logged out of the first computer.

#### Situation 7: Certificate error message

If you access the bidding system and see a security message similar to that shown in Figure 57 (for Microsoft Edge Chromium) or Figure 58 (for Google Chrome), you should not proceed. Please call FCC Technical Support at (877) 480-3201, option nine; (202) 414-1250; or (202) 414-1255 (TTY).



Privacy error		× +				-	- Cl	×
$\leftarrow \  \  \rightarrow \  \   \mho$	A Not se	cure   https://			\$ ⋟	曲		
			<b>A</b>					
			<b>A</b>					
			—					
			Your connection isn't private					
			Attackers might be trying to steal your information from (for ex messages, or credit cards).	xample, passwords,				
			NET:ERR_CERT_COMMON_NAME_INVALID					
			Advanced	Back to safety				

## Figure 58: Certificate security error message in Google Chrome

Phacyenor × +	
← → C ▲ Not secure	@ ☆ 0   🚳 ፤
Your connection is not private	
Attackers might be trying to steal your information from (for example,	
passwords, messages, or credit cards). Learn more	
NET:ERR_CERT_COMMON_NAME_INVALID	
Help improve Chrome security by sending URLs of some pages you visit limited system	
information, and some page content to Google. Privacy policy	
Advanced Back to safety	

## Appendix 2: RSA SecurID<sup>®</sup> Token Information

For additional assistance with lost or damaged RSA tokens and for questions about changing a user (i.e. an authorized bidder), the person who has been designated as the contact person, or the certifying official on the bidder's FCC Form 175 application (designated person), should call the Auction Bidder Line telephone number provided with your registration materials.

## 1. Number of RSA Tokens Issued and Extra RSA Tokens

Each qualified bidder is issued three RSA tokens. Each bidder is permitted to identify up to three authorized bidders on its Form 175. Therefore, a bidder with fewer than three authorized bidders will have one or two extra tokens.

Bidders cannot use an extra RSA token unless they contact the FCC to activate the extra RSA token for a specific user.

Each RSA token must be associated with a specific authorized bidder. RSA tokens are not interchangeable among authorized bidders. The FCC must reassign the token in the RSA server for the token to become functional.

## 2. Replacing Lost or Damaged RSA Tokens

In the event that an RSA token is lost or damaged, the person who has been designated as the authorized bidder, contact person, or certifying official listed on the bidder's FCC Form 175 should call the Auction Bidder Line telephone number provided with the registration materials to request activation of a replacement token.

## 3. Change of User (Authorized Bidder)

A qualified bidder may change or replace its authorized bidders. For more information on changing the authorized bidder assigned to an RSA token, the person who has been designated as the authorized bidder, contact person, or certifying official on the bidder's FCC Form 175 application should call the Auction Bidder Line telephone number provided with the registration materials.

## 4. Forgotten PIN

If an authorized bidder forgets his PIN, he should contact FCC Technical Support at (877) 480-3201, option nine; (202) 414-1250; or (202) 414-1255 (TTY)) to have the PIN reset. Please note, however, that this process might not occur before a round ends. In this event, a bidder may lose bidding eligibility. FCC Technical Support is generally available Monday through Friday from 8:00 a.m. to 6:00 p.m. ET.

Term	Definition/Notes
Activity	Bidding activity is the total number of bidding units associated with a bidder's demands. During a bidding round, and before the bids from the round are processed, the submitted activity on the Place Bids screen and the activity on the Bid Summary screen show an estimate of activity that assumes all the bids submitted so far in the round are applied during bid processing. After the bids of a round have been processed, activity in My Results
	shows the total number of bidding units associated with the bidder's processed demands for the round ("processed activity").
Activity Requirement Percentage	A percentage (expressed in terms of eligibility) that the processed activity must meet in order for a bidder's eligibility to remain unchanged in the next round (e.g. 95%). Initially, the activity requirement percentage will be set at 95%. The FCC retains the discretion to change the percentage during the auction within the range of 90% and 100%.
Activity Upper Limit	The maximum number of bidding units for which the bidder can submit bids in a round. Note that the bidding system will not apply bids with total bidding units that exceed the bidder's eligibility. In Round 1, the activity upper limit is equal to the bidder's eligibility for the round. Starting in Round 2, the activity upper limit is 120% of the bidder's eligibility for the round. The FCC retains the discretion to change the percentage during the auction within the range of 100% and 140%.
Aggregate Demand	The sum of processed demands by all bidders for a given product.
Auction ID	The FCC auction number for this auction, Auction 107.
Bidding Credit Discount	A discount on a bidder's total payment for the licenses it wins in the auction. Bidders that qualify for a rural service provider bidding credit receive a 15% discount. Bidders that qualify for a small business bidding credit receive either a 15% or 25% discount. The total amounts of bidding credit discounts are capped as described below.

# Appendix 3: Glossary of Terms

Term	Definition/Notes
Bidding Credit Discount Caps	The total amount of an eligible bidder's rural service provider bidding credit discount will be capped at \$10 million.
	The total amount of an eligible bidder's small business bidding credit discount will be capped at \$25 million. Of that, the small business bidding credit discount will be capped at \$10 million for bids on blocks in small markets.
Bidding Unit	Unit used for measuring activity and eligibility during the clock phase. Each PEA has an associated number of bidding units. All products in a PEA are assigned the same number of bidding units. This number does not change during the auction.
Category A	A bidding category of generic blocks in the clock phase of Auction 107, consisting of 5 blocks (A1–A5). This category is available only in the 46 PEAs with blocks subject to the Phase I deadline.
Category BC	A bidding category of generic blocks in the clock phase of Auction 107, consisting of 9 blocks (B1–B5, C1–C4). This category is available only in the 46 PEAs with blocks subject to the Phase I deadline.
Category ABC	A bidding category of generic blocks in the clock phase of Auction 107, consisting of 14 blocks (A1–A5, B1–B5, C1–C4). This category is available only in the 360 PEAs that comprise blocks subject only to the Phase II accelerated relocation deadline.
Clock Price	The maximum price at which a bidder can submit a bid in the round for a given product.
Clock Round	A time period during which bidders may submit bids for products in the clock phase of the auction.
Commitment	The sum, over all products, of the bidder's processed demand for a product multiplied by the product's posted price for the round.
Default Bids	The set of saved simple bids corresponding to the bidder's previous processed demands at the new round's clock prices.

Term	Definition/Notes	
Eligibility	The maximum number of bidding units for which the bidder can have processed demand after the round. For Round 1, this is also the maximum number of bidding units that the bidder may bid for in the round. For Round 1, the eligibility depends on a bidder's upfront payment. For every other round, a bidder's eligibility depends on its processed activity and the activity requirement percentage.	
FRN	The FCC Registration Number, a unique identifier for each bidder.	
Market Number	A unique identifier for each market (PEA) in the auction.	
Intra-round Bid	A bid that indicates a change in demand from the bidder's processed demand at a price greater than or equal to the last round's posted price and less than the current round's clock price. Intra-round bids are processed in ascending order of price points, but they are entered and displayed in dollars.	
Minimum Opening Bids	The opening prices for products in Auction 107. In Round 1, a bidder bids for a quantity of blocks at these prices.	
Missing Bid	If a bidder fails to submit a bid for a product for which it has processed demand, the bidding system will consider that to be a missing bid, which will be processed as a simple bid requesting a quantity of zero at the previous round's posted price. A missing bid will not necessarily reduce the bidder's processed demand to zero after the round. The bidding system will apply as much of the missing bid request as it can, subject to the overall restriction that aggregate demand cannot fall below supply of a given product.	
Phase	There are two phases in Auction 107: the clock phase and the assignment phase. The clock phase will be followed by the assignment phase.	
Posted Price	The price for a product after the bids for a round are processed. The posted price for a round becomes the lowest price that can be bid in the next round.	

Term	Definition/Notes
Price Point	The price point indicates, as a percentage, the distance of the bid price between the posted price of the previous round and the clock price of the current round. For example, the 0% price point refers to the last round's posted price, the 100% price point refers to the clock price, and the 50% price point refers to the average of the last round's posted price and the clock price of this round. For bid processing, the bidding system converts prices into price points in order to determine the order of processing across all products.
Processed Activity	The total number of bidding units associated with the bidder's processed demand after bid processing of the round. The bid processing algorithm ensures that processed activity does not exceed the bidder's eligibility for the round.
Processed Demand	The bidder's demand for the product after bid processing of the round.
Product	The pairing of a PEA and a license category — for example, "PEA001-A", "PEA001-BC", and "PEA100-ABC".
Requested Commitment	The total gross bid amount calculated at the clock price given all bids that the bidder has submitted so far in the round, assuming that all bids are applied during bid processing. During the round, bids for the round have not yet been processed, so the requested commitment, which is updated as bids are submitted, is an estimate of a bidder's commitment. This number is calculated and shown to the bidder while the round is open on the Place Bids and Bid Summary screens. After the round closes, the bidder's requested commitment based on all the bids that the bidder submitted during the round continues to be available on the Bid Summary screen.
Required Activity	The number of bidding units that the processed activity must meet in order for a bidder's eligibility to remain unchanged in the next round. The required activity is calculated by multiplying the activity requirement percentage by the bidder's eligibility for the round.
Round Opening Price	This is the minimum price at which a bidder can place a bid in the round. For any round after Round 1, the minimum price is the posted price of the previous round.
Sample Bids File	A bid template available on the Place Bids screen that can be used to prepare a bid file.

Term	Definition/Notes
Simple Bid	The basic bid type used in Auction 107, which specifies a quantity of blocks demanded and a price. A simple bid to change demand is treated as a request, and if it is not possible to apply the simple bid in its entirety, it may be applied partially. However, with a simple bid to reduce demand, the bidder will never pay more than its specified price for an unreduced quantity.
Small Markets	All PEAs with a population of 500,000 or less. Winning bids in these markets are subject to the small market bidding credit discount cap.
Submitted Activity	The total number of bidding units associated with all bids submitted up to that point in the round, assuming that all are applied during bid processing. The submitted activity cannot exceed the bidder's activity upper limit for the round.
Supply	The number of blocks of a product offered in Auction 107.
Switch Bid	A request to switch demand for a specified number of blocks from one product (the "from" product) to another (the "to" product) within the same PEA. Switch bids may be applied partially, but the increase in demand in the "to" product will always match in quantity the reduction in the "from" product.

### Appendix 4: Examples of Bid Types

This appendix provides an explanation of the different bid types.

In Round 1, bidders indicate their initial demands for products at the minimum opening bid price for each product. In subsequent rounds, there is a range of possible bid prices for each product for the round. The lowest price in the range, the round opening price, is the posted price from the previous round. The highest price is the clock price.

In a round after Round 1, the bidder will either maintain its demand for a given product or request to change its demand. The bidder will be able to use one of two bid types to indicate its demands. If the bidder wishes to:

- 1. Maintain its processed demand at all prices up to and including the clock price, it will use a simple bid at the clock price;
- 2. Specify a different demand *starting at a price* in that product's price range for the round, it may use a simple bid; or
- 3. Switch blocks from one category in the PEA to a different category in the PEA, it may use a switch bid.

The following examples focus on product PEA003-A, which has a supply of 5 blocks, a bidder with processed demand of 3 blocks, and a price range for the current round of \$5,000 - \$6,000. The second product in the table, PEA003-BC, will only be used for the switch bid example.

Product	Supply	Bidder's Processed Posted Price of		Clock Price of
		Demand	previous round	this round
PEA003-A	5	3	\$5,000	\$6,000
PEA003-BC	9	0	\$4,000	\$4,800

#### 1. Maintain the same demand as the processed demand — for all prices in the round

If the bidder wants to maintain the same quantity as its processed demand at any price in the current round's price range, then the user must submit a *simple bid for that quantity at the current round's clock price*. In the scenario above, if the bidder wants to maintain its demand for 3 blocks in PEA003-A for all prices between \$5,000 and \$6,000, then the user should submit a *simple bid* for 3 blocks at \$6,000. This indicates that that the bidder is willing to accept 3 blocks at any price for the round up to and including the clock price of \$6,000.

# 2. Specify a different demand starting at a price in that product's price range for the round

If, *starting at a price* in that product's price range for the round, the bidder demands a different quantity of PEA003-A blocks, the user may choose to:

- Enter a *simple bid* for the desired quantity at that price. The desired quantity can be either larger or smaller than the processed demand, but it cannot exceed supply.
- Enter a *switch bid* to move demand from Category A in a PEA to Category BC (or vice versa) of the same PEA.

Bid processing will treat simple and switch bids differently in determining processed demand and the posted price for PEA003-A.

## Example 1: Simple bid to reduce demand for PEA003-A from 3 blocks to 1 block at \$5,500

Suppose that after the bids of the previous round are processed, the bidder's processed demand for PEA003-A is 3 blocks and the posted price is \$5,000. In the current round, the clock price is \$6,000, and the bidder places a single simple bid requesting a reduction in its demand to 1 block at price \$5,500.

To the auction bidding system, this bid means the following:

- At a price below \$5,500, the bidder is willing to purchase 3 blocks.
- At a price of exactly \$5,500, the bidder is willing to purchase 1, 2, or 3 blocks.
- At a price above \$5,500, the bidder is willing to purchase only 1 block.

When the bidding system processes the bids at price \$5,500, the simple bid will be applied fully, partially, or not at all depending on the level of excess demand for PEA003-A at that point in the bid processing.

- (a) If aggregate demand exceeds supply by more than 2 blocks, the bid is fully applied. The bidder will hold 1 block.
- (b) If aggregate demand exceeds supply by exactly 2 blocks, the bid is also fully applied. The bidder will hold 1 block.
- (c) If aggregate demand exceeds supply by only 1 block, the bid is partially applied. The bidder will hold 2 blocks.
- (d) If aggregate demand does not exceed supply, the bid is not applied. The bidder will continue to hold 3 blocks.

If no other bidder has submitted a bid requesting to change its demand for PEA003-A, then:

- In case (a), the posted price will be equal to \$6,000.
- In cases (b) and (c), the posted price will be equal to \$5,500.
- In case (d), the posted price will be equal to \$5,000.

## Example 2: Simple Bid to increase demand for PEA003-A from 3 blocks to 5 blocks at \$5,500

Suppose again that after the bids of the previous round are processed, the bidder's processed demand for PEA003-A is 3 blocks and the posted price is \$5,000. In the current round, the clock price is \$6,000.

By placing a single simple bid for 5 blocks for the product at price \$5,500, the bidder is indicating that it is willing to buy a quantity between 3 and 5 blocks at any price associated with this round. Increases in demand are always applied, provided that the increase would not result in processed activity that exceeds the bidder's eligibility.

To the bidding system, this bid means the following:

- The bid (for the purpose of processing order) is processed when the price is \$5,500.
- The bidder is willing to purchase 3, 4, or 5 blocks at any price between \$5,000 and \$6,000.

When the bidding system processes the bid at price \$5,500, the simple bid will be applied fully, partially, or not at all depending on whether the increase would cause the bidder's processed activity to exceed its eligibility at that point in the bid processing.

- (a) If the bidder has sufficient eligibility to add 2 blocks, the bid is fully applied. The bidder will hold 5 blocks.
- (b) If the bidder has sufficient eligibility to add only 1 block, the bid is partially applied. The bidder will hold 4 blocks.
- (c) If the bidder does not have sufficient eligibility to add any blocks, the bid is not applied. The bidder will continue to hold 3 blocks.

If no other bidder has submitted a bid requesting to change its demand for PEA003-A during the round, and after applying this bid fully, partially, or not at all:

- If the aggregate demand exceeds supply, then posted price will be equal to \$6,000.
- If the aggregate demand equals supply, then posted price will be equal to \$5,000.
- If the aggregate demand is less than supply, then posted price will be equal to \$5,000.

If at least one (additional) bid was applied that reduced demand for PEA003-A, then:

- If the aggregate demand exceeds supply after processing all bids, the posted price will be equal to \$6,000.
- If the aggregate demand equals supply after processing all bids, the posted price will be equal to the price of the highest priced bid that involved a reduction in demand that was applied in full or in part.<sup>14</sup>
- Note that it is not possible for the aggregate demand to be less than supply in this scenario, as the reduction would not have been applied.

<sup>&</sup>lt;sup>14</sup> The bidding system maintains a queue of unapplied bids and their associated price points. Bids are processed in order of price point and whenever a bid is applied, the queue of unapplied bids is revisited in order of priority. In this case, if there is a bid by another bidder to reduce demand in the queue at \$5,200, for example, applying the increase at \$5,500 may make it possible for the requested reduction by the other bidder to be applied. If aggregate demand becomes equal to supply at the lower price point, the posted price may be \$5,200. For further details, see Appendix 5: Bid Processing.

# Example 3: Switch blocks from Category A in the PEA to Category BC in the PEA starting at a price in that product's price range for the "from" product

A bidder has the option of switching demand from Category A in a PEA to Category BC in the same PEA (or vice versa) using a *switch bid*. The switch bid is applied in full or in part to the extent that there is excess demand for the "from" product.

Suppose that after the bids of the previous round are processed, the bidder's processed demand is 3 blocks for PEA003-A and 0 blocks for PEA003-BC and the posted price of PEA003-A is \$5,000. In the current round, the clock price for PEA003-A is \$6,000, and the bidder wants to switch its demand by 2 blocks from A to BC at price \$5,500. To do so, the bidder places a switch bid indicating a new demand of 1 (its processed demand of 3, minus 2 blocks) for PEA003-A at \$5,500.

To the auction bidding system, this bid means the following:

- If the price of PEA003-A is below \$5,500, the bidder is willing to purchase 3 A blocks and no BC blocks.
- If the price of PEA003-A is equal to \$5,500, the bidder wishes to switch demand from A to BC by up to 2 blocks.
- If the price of PEA003-A is above \$5,500, the bidder is willing to purchase 1 A block and 2 BC blocks.

Note that the bidder does not specify a quantity or a price for BC blocks in its bid. By placing the switch bid, the bidder indicates a willingness to increase its demand for BC by up to 2 blocks at all prices up to the current clock price for BC. The processing order for the switch bid is based on the price of the "from" product (the A product in this example).

When the bidding system processes the bid at price \$5,500, this switch bid will be applied fully, partially, or not at all depending on the level of excess demand for A:

- (a) If aggregate demand exceeds supply by more than 2 blocks in A, the bid is fully applied. The bidder will then hold 1 block of PEA003-A and 2 blocks of PEA003-BC.<sup>15</sup>
- (b) If aggregate demand exceeds supply by 2 blocks in A, the bid is fully applied. The bidder will then hold 1 block of PEA003-A and 2 blocks of PEA003-BC.
- (c) If aggregate demand exceeds supply by only 1 block in A, the bid is partially applied. The bidder then will hold 2 blocks of PEA003-A and 1 block of PEA003-BC.
- (d) If aggregate demand does not exceed supply in A, the bid is not applied at all. The bidder will continue to hold 3 blocks of PEA003-A and 0 blocks of PEA003-BC.

<sup>&</sup>lt;sup>15</sup> In this example, the bidder started the round with 0 blocks of processed demand for BC. If, alternatively, it had started with processed demand for BC of 1 block, then the bidding system would increase its demand for BC by the amount that is switched. That is, if 1 block was switched from A to BC, then the bidder would have processed demand for 2 blocks of BC after the switch bid is applied.

Continuing the same example, if no other bidder has submitted a bid requesting to change its demand for PEA003-A, then:

- In case (a), the posted price for PEA003-A will be \$6,000.
- In cases (b) and (c), the posted price for PEA003-A will be \$5,500.
- In case (d), the posted price for PEA003-A will be \$5,000.

The posted price for PEA003-BC depends on whether aggregate demand is greater than, equal to, or less than supply and on whether any bids to reduce demand for that product were applied during bid processing.

In all cases, the bidder's total processed demand for blocks in both categories is still 3 blocks. However, the number of blocks that are switched from one category to the other category may be smaller than the maximum number of blocks that the bidder is willing to switch, depending upon whether it is possible to reduce the bidder's demand for blocks in the "from" category.

### **Appendix 5: Bid Processing**

Bid processing determines, at the conclusion of a round of bidding, the processed demands for all bidders and the posted prices for all the products. Bids are processed differently in Round 1 than in later clock rounds. This appendix provides an overview of bid processing in both types of rounds.

### 1. Round 1

In Round 1, each bidder specifies the quantities it wants of each product, not exceeding the supply of each product, at the minimum opening bid prices. All Round 1 bids are applied during bid processing, so a bidder's processed demand for a product is equal to the quantity specified in its bid. The posted prices for Round 1 are the minimum opening bid prices.

#### 2. Round after Round 1

For a round after Round 1, bids to maintain processed demands at the clock price will always be applied. Bids to change demands are treated as requests and are applied to the extent possible.

To determine *processed demands*, bids are ordered by price point (from lowest to highest) across all bids (all products in all PEAs), and then by a bid-specific pseudorandom number (from lowest to highest). They are then considered in that order.<sup>16</sup>

Reductions in demand will only be applied during bid processing if there is excess demand for the product at the point at which the bid is considered. An increase in demand will only be applied during bid processing if, at the time the bid is considered, the resulting processed activity would not exceed the bidder's eligibility for the round.

If a bid cannot be applied at the price point at which it is considered, it is placed in a queue where it maintains its bid processing order. Every time a bid is applied, the auction system reconsiders the bids in the queue in order, applying any that can then be applied.

After the processed demands have been determined, the *posted price* of a product for the round is set as follows:

- If aggregate demand (evaluated using the processed demands) exceeds supply, the posted price will be set equal to the clock price for the round.
- If aggregate demand (evaluated using the processed demands) is equal to supply and at least one bid to reduce demand for that product was applied (either entirely or partially), the posted price will be the highest price at which a reduction for the product was applied. That is, the posted price will be the price at which a reduction caused aggregate demand to equal supply.

<sup>&</sup>lt;sup>16</sup> The price for the "from" product in a switch bid determines when the switch bid is considered during bid processing. Thus, if the switch bid is at the 50.00% price point for the "from" product, both sides of the switch bid are considered at that time.

• Otherwise, the posted price will be the same as in the previous round.

The posted price will become the opening price for the next round. The bid increment percentage will be added to the posted price to determine the next round's clock price.

### 3. Example of Bid Processing for a Round after Round 1

Consider a product, PEA036-BC, with a supply of 9 blocks. The Round 3 opening price for PEA166-BC is \$100,000 and the clock price is \$110,000. The second column of the following table shows the bidders' Round 3 processed demands:

Bidder	Round 3	Round 4			
	Processed Demand	Bid: quantity @ price (all simple bids)	Price Point	Order for Processing	
Bidder 1	2 blocks	1 @ \$111,000	0.0909090909	1	
Bidder 2	3 blocks	1 @ \$115,500	0.500000000	3	
Bidder 3	2 blocks	0 @ \$119,000	0.8181818182	5	
Bidder 4	4 blocks	0 @ \$115,000	0.4545454545	2	
Bidder 5	0 blocks	2 @ \$118,000	0.7272727273	4	
Bidder 6	2 blocks	2 @ \$121,000			
Total	13				

The aggregate demand for Round 3 is 13 blocks. Since aggregate demand exceeds supply, the posted price of Round 3 is set to be equal to the clock price of Round 3, that is, \$110,000. Suppose that the clock price of Round 4 is \$121,000. Round 4 bids must be between \$110,000 and \$121,000.

The third column of the table shows the bids in Round 4. Five of the six bidders submitted simple bids for quantities that are different than their Round 3 processed demands. Bidder 6 submitted a simple bid to maintain its Round 3 processed demand at the Round 4 clock price. The bid of Bidder 6 is trivially applied during bid processing, because it is a bid to maintain demand.

The fourth column shows the price points associated with the bids to change demand. The price points are used to determine the order in which bids to change demand are considered during processing (shown in the last column). Bids at lower prices are processed first. The bid processing for bids to change demand proceeds as follows:

• The bid of Bidder 1 is considered first. This bid is a request to reduce demand from 2 blocks to 1 block starting at \$111,000. Since there is sufficient excess demand at \$111,000, it is applied, bringing aggregate demand for PEA166-BC down to 12.

Bidder	Round 3	Round 4			
	Processed Demand	Bid: quantity @Applied?ProcessedAggregateprice (all simple)DemandDemand			
Bidder 1	2 blocks	1 @ \$111,000	Yes	1 block	12

The bid of Bidder 4 is considered next. The bid is a request to reduce demand from 4 blocks to 0 blocks starting at \$115,000. The bid cannot be applied in full at this time because there is only excess demand of 3 blocks. It is applied partially, bringing the demand of Bidder 4 down to 1 block and aggregate demand down to 9. Now aggregate demand is equal to supply and Bidder 4's partially applied bid is placed in a queue.

Bidder	Round 3	Round 4			
	Processed Demand	Bid: quantity @ price (all simple)	Applied?	Processed Demand	Aggregate Demand
Bidder 1	2 blocks	1 @ \$111,000	Yes	1 block	12
Bidder 4	4 blocks	0 @ \$115,000	Partially	1 block	9

Queue						
Bidder	Processed Demand	Bid: quantity @ price (all simple)	Order for Processing			
Bidder 4	1 block	0 @ \$115,000	2			

• The bid of Bidder 2 is considered next. This is a request to reduce its demand from 3 blocks to 1 block. It is not applied at this time because there is no excess demand so the bid is added to the queue.

Bidder	Round 3	Round 4			
	Processed	Bid: quantity @	Applied?	Processed	Aggregate
	Demand	price (all simple)		Demand	Demand
Bidder 1	2 blocks	1 @ \$111,000	Yes	1 block	12
Bidder 4	4 blocks	0 @ \$115,000	Partially	1 block	9
Bidder 2	3 blocks	1 @ \$115,500	No	3 blocks	9

		Queue	
Bidder	Processed	Bid: quantity @	Order for
	Demand	price (all simple)	Processing
Bidder 4	1 block	0 @ \$115,000	2
Bidder 2	3 blocks	1 @ \$115,500	3

• The bid of Bidder 5 is considered next. This is a request to increase demand from zero blocks to 2 blocks. Assuming that Bidder 5 has sufficient eligibility, its bid is applied. As a result, aggregate demand for the product increases to 11.

Bidder	Round 3	Round 4			
	Processed	Bid: quantity @	Applied?	Processed	Aggregate
	Demand	price (all simple)		Demand	Demand
Bidder 1	2 blocks	1 @ \$111,000	Yes	1 block	12
Bidder 4	4 blocks	0 @ \$115,000	Partially	1 block	9
Bidder 2	3 blocks	2 @ \$115,500	No	3 blocks	9
Bidder 5	0 blocks	2 @ \$118,000	Yes	2 blocks	11

Queue					
Bidder	Processed Demand	Bid: quantity @ price (all simple)	Order for Processing		
Bidder 4	1 block	0 @ \$115,000	2		
Bidder 2	3 blocks	1 @ \$115,500	3		

• Since the bid request of Bidder 5 was applied, the bid requests in the queue are now reconsidered. Bidder 4's remaining request to reduce from 1 block to 0 blocks is considered first since it is the bid with the lowest price point in the queue. This bid was applied partially before and now it can be applied in full and removed from the queue. The demand of Bidder 4 is changed from 1 block to 0 blocks, bringing aggregate demand down to 10.

Bidder	Round 3	Round 4			
	Processed Demand	Bid: quantity @ price (all simple)	Applied?	Processed Demand	Aggregate Demand
Bidder 1	2 blocks	1 @ \$111,000	Yes	1 block	12
Bidder 4	4 blocks	0 @ \$115,000	Partially	1 block	9
Bidder 2	3 blocks	1 @ \$115,500	No	3 blocks	9
Bidder 5	0 blocks	2 @ \$118,000	Yes	2 blocks	11
Bidder 4	1 block	0 @ \$115,000	Yes	0 blocks	10

Queue					
Bidder	Processed Demand	Bid: quantity @ price (all simple)	Order for Processing		
Bidder 2	3 blocks	1 @ \$115,500	3		

• The bid of Bidder 2 to reduce demand from 3 blocks to 1 block remains in the queue and is considered next. It is partially applied, bringing the demand of Bidder 2 from 3 blocks to 2 blocks and aggregate demand down to 9. Bidder 2's bid remains in the queue, because it has not been fully applied.

Bidder	Round 3	Round 4			
	Processed	Bid: quantity @	Applied?	Processed	Aggregate
	Demand	price (all simple)		Demand	Demand
Bidder 1	2 blocks	1 @ \$111,000	Yes	1 block	12
Bidder 4	4 blocks	0 @ \$115,000	Partially	1 block	9
Bidder 2	3 blocks	1 @ \$115,500	No	3 blocks	9
Bidder 5	0 blocks	2 @ \$118,000	Yes	2 blocks	11
Bidder 4	1 block	0 @ \$115,000	Yes	0 blocks	10
Bidder 2	3 blocks	1 @ \$115,500	Partially	2 blocks	9

Queue				
Bidder	Processed Demand	Bid: quantity @ price (all simple)	Order for Processing	
Bidder 2	2 blocks	1 @ \$115,500	3	

• The bid of Bidder 3 is considered next. It is not applied due to insufficient aggregate demand and it is placed in the queue.

Bidder	Round 3	Round 4			
	Processed	Bid: quantity @	Applied?	Processed	Aggregate
	Demand	price (all simple)		Demand	Demand
Bidder 1	2 blocks	1 @ \$111,000	Yes	1 block	12
Bidder 4	4 blocks	0 @ \$115,000	Partially	1 block	9
Bidder 2	3 blocks	1 @ \$115,500	No	3 blocks	9
Bidder 5	0 blocks	2 @ \$118,000	Yes	2 blocks	11
Bidder 4	1 block	0 @ \$115,000	Yes	0 blocks	10
Bidder 2	3 blocks	1 @ \$115,500	Partially	2 blocks	9
Bidder 3	2 blocks	0 @ \$119,000	No	2 blocks	9

Queue				
Bidder	Processed Demand	Bid: quantity @ price (all simple)	Order for Processing	
Bidder 2	2 blocks	1 @ \$115,500	3	
Bidder 3	2 blocks	0 @ \$119,000	5	

The processed demands of the round have now been determined. In this example, aggregate demand is now equal to supply. The posted price of the product for Round 3 is set to \$115,500, the maximum price associated with a reduction bid that was applied in the round (in this case, the bid was applied partially).

The bid increment percentage will be added to the posted price from Round 4 to determine the clock price for Round 5. The Round 4 bids that were not applied during bid processing do not carry over to Round 5.