

weighted average of the number of bids in that round and the activity index from the prior round. The current activity index is equal to a weighting factor times the number of new bids received on the license in the most recent bidding round plus one minus the weighting factor times the activity index from the prior round. The activity index is then used to calculate a percentage increment by multiplying a minimum percentage increment by one plus the activity index with that result being subject to a maximum percentage increment. The Commission will initially set the weighting factor at 0.5, the minimum percentage increment at 0.1 (10%), and the maximum percentage increment at 0.2 (20%). Hence, at these initial settings, the percentage increment will fluctuate between 10% and 20% depending upon the number of bids for the license.

Equations

$$A_i = (C * B_i) + ((1 - C) * A_{i-1})$$

$$I_{i+1} = \text{smaller of } ((1 + A_i) * N) \text{ and } M$$

$$X_{i+1} = I_{i+1} * Y_i$$

Where,

A_i = activity index for the current round (round i)

C = activity weight factor

B_i = number of bids in the current round (round i)

A_{i-1} = activity index from previous round (round $i-1$), A_0 is 0

I_{i+1} = percentage increment for the next round (round $i+1$)

N = minimum percentage increment or percentage increment floor

M = maximum percentage increment or percentage increment ceiling

X_{i+1} = dollar amount associated with the percentage increment

Y_i = high bid from the current round

Under the smoothing methodology, once a bid has been received on a license, the minimum acceptable bid for that license in the following round will be the high bid from the current round plus the dollar amount associated with the percentage increment, with the result rounded to the nearest thousand if it is over ten thousand or to the nearest hundred if it is under ten thousand.

Examples

License 1

$C = 0.5$, $N = 0.1$, $M = 0.2$

Round 1 (2 new bids, high bid = \$1,000,000)—

i. Calculation of percentage increment for round 2 using the smoothing formula:

$$A_1 = (0.5 * 2) + (0.5 * 0) = 1$$

$$I_2 = \text{The smaller of } ((1 + 1) * 0.1) = 0.2 \text{ or } 0.2 \text{ (the maximum percentage increment)}$$

ii. Calculation of dollar amount associated with the percentage increment for round 2 (using I_2):

$$X_2 = 0.2 * \$1,000,000 = \$200,000$$

iii. Minimum acceptable bid for round 2 = \$1,200,000

Round 2 (3 new bids, high bid = \$2,000,000)—

i. Calculation of percentage increment for round 3 using the smoothing formula:

$$A_2 = (0.5 * 3) + (0.5 * 1) = 2$$

$$I_3 = \text{The smaller of } ((1 + 2) * 0.1) = 0.3 \text{ or } 0.2 \text{ (the maximum percentage increment)}$$

ii. Calculation of dollar amount associated with the percentage increment for round 3 (using I_3):

$$X_3 = 0.2 * \$2,000,000 = \$400,000$$

iii. Minimum acceptable bid for round 3 = \$2,400,000

Round 3 (1 new bid, high bid = \$2,400,000)—

i. Calculation of percentage increment for round 4 using the smoothing formula:

$$A_3 = (0.5 * 1) + (0.5 * 2) = 1.5$$

$$I_4 = \text{The smaller of } ((1 + 1.5) * 0.1) = 0.25 \text{ or } 0.2 \text{ (the maximum percentage increment)}$$

ii. Calculation of dollar amount associated with the percentage increment for round 4 (using I_4):

$$X_4 = 0.2 * \$2,400,000 = \$480,000$$

iii. Minimum acceptable bid for round 4 = \$2,880,000

32. As stated, until a bid has been placed on a license, the minimum acceptable bid for that license will be equal to its minimum opening bid. The additional bid amounts are calculated using the difference between the minimum opening bid times one plus the minimum percentage increment, rounded as described, and the minimum opening bid. That is, $I = (\text{minimum opening bid})(1 + N)\{\text{rounded}\} - (\text{minimum opening bid})$. Therefore, when N equals 0.1, the first additional bid amount will be approximately ten percent higher than the minimum opening bid; the second, twenty percent; the third, thirty percent; etc.

33. In the case of a license for which the standing high bid has been withdrawn, the minimum acceptable bid will equal the second highest bid received for the license. The additional bid amounts are calculated using the difference between the second highest bid times one plus the minimum percentage increment, rounded, and the second highest bid.

34. The Bureau retains the discretion to change the minimum acceptable bids and bid increments if it determines that

circumstances so dictate. The Bureau will do so by announcement in the FCC Automated Auction System. We seek comment on these proposals.

D. High Bids

35. At the end of a bidding round, a high bid for each license will be determined based on the highest gross bid amount received for the license. In the event of identical high bids on a license in a given round (*i.e.*, tied bids), we propose to use a random number generator to select a single high bid from among the tied bids. If the auction were to end with no higher bids being placed for that license, the winning bidder would be the one that placed the selected high bid. However, the remaining bidders, as well as the high bidder, can submit higher bids in subsequent rounds. If any bids are received on the license in a subsequent round, the high bid again will be determined by the highest gross bid amount received for the license.

36. A high bid will remain the high bid until there is a higher bid on the same license at the close of a subsequent round. A high bid from a previous round is sometimes referred to as a "standing high bid." Bidders are reminded that standing high bids confer activity credit.

E. Information Regarding Bid Withdrawal and Bid Removal

37. For Auction No. 55, we propose the following bid removal and bid withdrawal procedures. Before the close of a bidding period, a bidder has the option of removing any bid placed in that round. By removing selected bids in the bidding system, a bidder may effectively "unsubmit" any bid placed within that round. A bidder removing a bid placed in the same round is not subject to a withdrawal payment. Once a round closes, a bidder may no longer remove a bid.

38. A high bidder may withdraw its standing high bids from previous rounds using the withdraw function in the bidding system. A high bidder that withdraws its standing high bid from a previous round is subject to the bid withdrawal payment provisions of the Commission rules. We seek comment on these bid removal and bid withdrawal procedures.

39. In the *Part 1 Third Report and Order*, 63 FR 770 (January 7, 1998), the Commission explained that allowing bid withdrawals facilitates efficient aggregation of licenses and the pursuit of efficient backup strategies as information becomes available during the course of an auction. The Commission noted, however, that, in