

## **Appendix 13 – Additional Information Concerning Maximum Willingness to Supply**

A Bid must be displayed as a price, in \$/MWh rounded to the nearest cent, for a block of a Product or for a block of a Combination for a Company. A Bidder may provide a maximum willingness to supply for each month and each Segment for a Company. The information related to the maximum willingness to supply provided in this document applies to Bids for each Company (Ameren, ComEd, and MidAmerican) separately; the term “Segment of a month” should be interpreted to mean “Segment of a month for a Company”.

Unless a maximum willingness to supply for a Segment of a month is specified by the Bidder, it will be assumed that a Bidder is willing to supply up to the minimum of: (i) the Target for that Segment of that month; and (ii) the number of blocks bid for that Segment of that month, which is the sum of the number of blocks bid for the Product corresponding to that Segment and that month and the number of blocks bid on any Combination that includes that Segment and that month. If a Bidder specifies a maximum willingness to supply for a Segment of a month, that maximum willingness to supply cannot be more than the Target for that Segment of that month and the maximum willingness to supply cannot be more than the number of blocks bid for that Segment of that month (which is the sum of the number of blocks bid for the Product corresponding to that Segment and that month and the number of blocks bid on any Combination that includes that Segment and that month). The maximum willingness to supply for a Segment of a month must be an integer number of blocks. The Bidder cannot win, across all Products and Combinations, more blocks of a Segment of a month than the Bidder has specified as its maximum willingness to supply for that Segment of that month.

This document explains further the concept of the maximum willingness to supply by using illustrative Bids. We consider the Bids placed on off-peak blocks by Company A for the period from June 2017 to May 2018. Company A submitted Bids for each Product and for each Combination available during that period. (We will omit the term “off-peak” and the year specification for the remainder of this document). The Bids are presented in Table 1 below.

Please note that this Table 1 does **NOT** follow the format of the Bid Form exactly and has been designed for the purposes of this example.

Table 1 below has each month as a column. The Bids on individual Products (i.e., the Bids for each specific month) are placed in the rows 3-7 of Table 1, followed by the Bids on Combinations in rows 9-25. In the rows with Bids on Combinations, grey shading of a cell indicates that a

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particular month is not part of the Combination. For example, in column J, which corresponds to the month of January, the cells in rows 16 to 19 that correspond to the Jan/Feb combination are white while the cells in column L rows 16 to 19 are grey because March is not a component of the Jan/Feb combination.

**Table 1. Illustrative Bids and Maximum Willingness to Supply**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1			Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
2	<b>Blocks bid on single products</b>													
3	1		50.00	52.00	53.60	50.00	55.00	54.77	54.25	51.72	55.60	52.45	51.89	51.48
4	2		52.00	59.00	54.00	50.02			54.73	51.97	57.80	52.59		52.36
5	3					50.04				52.20				
6	4									52.43				
7	5									52.66				
8	<b>Blocks bid on combination products</b>													
9	1	Jul/Aug		51.00										
10	2													
11	3													
12	4													
13	1	Oct/Nov/Dec					54.00							
14	2													
15	3													
16	1	Jan/Feb								52.21				
17	2									52.22				
18	3									52.23				
19	4									52.24				
20	1	Mar/Apr										53.22		
21	2													
22	3													
23	1	Annual					45.00							
24	2													
25	3													
26														
27	<b>Number of Bids placed</b>		3	4	4	4	3	3	4	10	7	4	3	3
28	<b>TARGETS</b>		4	5	4	4	3	3	5	5	4	4	3	3
29														
30	<b>Max Willingness to Supply (Default)</b>		3	4	4	4	3	3	4	5	4	4	3	3

Company A is placing Bids on every Product, as well as on every Combination but not necessarily for all blocks available. Absent Company A specifying a maximum willingness to supply for a given Segment of a month, that maximum willingness to supply would be set as the minimum of (i) the Target for that Segment of that month; and (ii) the number of blocks bid for that Segment of that month, which is the sum of the number of blocks bids for the Product corresponding to that Segment and that month and the number of blocks bid on any Combination that includes that Segment and that month. We will call this the “Max Willingness to Supply (Default)”, which appears in row 30 of the table above.

For example:

- *Month of June:* The Target for June is four (4) blocks, and the Bidder has placed bids on two (2) blocks on the month of June alone and one (1) block of the Annual Combination. The Default Max Willingness to Supply for June is three (3) blocks.
- *Month of January:* The Bidder has placed ten (10) bids for January, which is the sum of the five (5) bids on the month of January alone, the four (4) bids placed on the

Combination Jan/Feb, and the one (1) bid placed on the Annual Combination. The Target for January is five (5) blocks. The Default Max Willingness to Supply for January is five (5) blocks.

- *Month of March:* The Bidder has placed four (4) bids for March, which is the sum of the two (2) bids on the month of March alone, the one (1) bid placed on the Combination Mar/Apr, and the one (1) bid placed on the Annual Combination. The Target for March is four (4) blocks. The Default Max Willingness to Supply for March is four (4) blocks.

Taking January as an example, five (5) blocks are needed to fill the Target so that the evaluation will only consider the packages that contain at most five (5) of the ten (10) bids placed (considering the Bids on January, the Bids on the Jan/Feb Combination, and the Bids on the Annual Combination). The evaluation could consider a combination of Bids from the month of January alone, the Jan/Feb Combination, and the Annual Combination.

Company A may specify a maximum willingness to supply. The maximum willingness to supply specified by a Bidder cannot be more than the Default Max Willingness to Supply calculated by the Bid Form and if so will supersede the Default Max Willingness to Supply calculated by the Bid Form. Table 2 on the next page provides illustrative entries that specify a maximum willingness to supply less than the Default Max Willingness to Supply.

**Table 2. Illustrative Bids and Bidder Determined Maximum Willingness to Supply**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
			Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1														
2	<b>Blocks bid on single products</b>													
3	1		50.00	52.00	53.60	50.00	55.00	54.77	54.25	51.72	55.60	52.45	51.89	51.48
4	2		52.00	59.00	54.00	50.02			54.73	51.97	57.80	52.59		52.36
5	3					50.04				52.20				
6	4									52.43				
7	5									52.66				
8	<b>Blocks bid on combination products</b>													
9	1	Jul/Aug		51.00										
10	2													
11	3													
12	4													
13	1	Oct/Nov/Dec					54.00							
14	2													
15	3													
16	1	Jan/Feb								52.21				
17	2									52.22				
18	3									52.23				
19	4									52.24				
20	1	Mar/Apr										53.22		
21	2													
22	3													
23	1	Annual					45.00							
24	2													
25	3													
26														
27	<b>Number of Bids placed</b>		3	4	4	4	3	3	4	10	7	4	3	3
28	<b>TARGETS</b>		4	5	4	4	3	3	5	5	4	4	3	3
29														
30	<b>Max Willingness to Supply (Bidder Determined)</b>		3	4	4	4	3	3	4	3	4	2	3	3

The Default Max Willingness to Supply for March in Table 1 above is four (4) blocks. In Table 2, Company A specifies a maximum willingness to supply for March of two (2) blocks, which is strictly less than the Target of four (4) blocks and strictly less than the total number of four (4) blocks bid. The evaluation would then consider at most two (2) Bids of the four (4) Bids placed (considering the Bids on March, the Bids on the Mar/Apr Combination, and the Annual Combination). The evaluation could consider, for example, the one (1) block bid for the Mar/Apr Combination and one block bid for the Annual Combination (and none of the blocks bid for the month of March alone). The evaluation could also consider, for example, two (2) blocks bid for the month of March alone. There are other combinations of Bids on March, Bids on the Mar/Apr Combination, and the Annual Combination that could be considered.

The Default Max Willingness to Supply for January in Table 1 above is five (5) blocks. In Table 2, Company A specifies a maximum willingness to supply for January of three (3) blocks, which is strictly less than the Target of five (5) blocks and strictly less than the total number of ten (10) blocks bid. The evaluation would then only consider packages that contain at most three (3) of the ten (10) Bids placed (considering the Bids on January, the Bids on the Jan/Feb Combination, and the Bids on the Annual Combination). The evaluation could consider, for example, one (1) block bid for the Jan/Feb Combination, one (1) block bid for the month of Annual Combination, and one (1) block bid for the month of January alone. The evaluation could also consider, for example, the three (3) lowest priced Bids for the Jan/Feb Combination. Note that, in this

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instance, the highest Bid that the Bidder placed for the Jan/Feb combination and the highest two (2) Bids for January are irrelevant and cannot possibly be part of the least-cost package because the Bidder has also specified that it is only willing a maximum of three (3) blocks. The Bidder cannot win, across all Products and Combinations, more blocks of a Segment of a month than the Bidder has specified as its maximum willingness to supply for that Segment of that month.