# H- \$50 Bid Cap and Node Limitations on Up-To Congestion「ansactions 

APRIL 10 SPEC IAL SESSIO N MIC
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## Limitations Addressed in Problem Statement

- Section 1.10 of Attachment K of the PJ M Ta riff and Schedule 1 Section 1.10 of the Operating Agreement state that: "The maximum difference between the source and sink prices that a partic ipant may specify shall be limited to + \$50/MWh."
- Roughly 438 out of the 12,259 nodes on the PJ M system are availa ble for UTC transactions.


## Node Selection Process Outined by PJM

- Step 1: Start with the historic set of eligible nodes that were a vaila ble as sources and sinks for interc hange transactions on the PJ M OASIS.
- Step 2: Remove from the list of nodes described in Step 1 all load buses below 69 kV.
- Step 3: Remove from the resulting set of nodes from Step 2 all generator buses at which no generators of 100 megawatts or more are connected.
- Step 4: Remove from the results of Step 3 all elec tric ally equiva lent nodes.


## Concems Regarding + \$50/MWh Bid Cap

- This bid limit does not comport with current LMP trends or price spreads between DA and RT.
- This bid limit prohibits this product from being a true hedge for asset owners.
- The current cap results in price insensitive bidding as Market Partic ipants can not bid what they actually think the congestion is worth on peak days.
- Prevailing flow transactions a re less likely to clear on peak days.
- However, counterflow transactions are much more likely to clear on those peak days. This results in a bias to the market.


## Concems Regarding +/\$50/MWh Bid Cap Contd

- There is no opportunity foraccurate pricing. For exa mple, if a Market Participant predic ts the price will be at $-\$ 150$, that Market Partic ipant has two choic es:
- Either bid - $\$ 50$, which is price insensitive; or
> Do not bid at all and thus there is no price discovery
- What is the downside of Bidding -\$50: if you bid a large volume and set price, your downside is signific ant.
- Overall Result for Market: More risk taken by the Market Partic ipant and less price disc overy for the market. Example Two disc ussed later in the presentation demonstrates why a Market Partic ipant would not bid -\$50.


## Concems Regarding +/\$50/MWh Bid Cap Cont'd

- The price limitation also forces Market Participants to bid altemate, less vola tile paths.
- For example, if a Market Partic ipants thinks congestion on a pa ric ular path will be - $\$ 300$ but can only bid $-\$ 50$ a nd thus does not want to take the potential downside risk, that Market Partic ipant could locate a nearby path that is less volatile to transact on.
- Result: inaccurate highlighting of effic iencies in the system.


## Concems with Node Availability

- Many nodes that would still be a vailable after the 4 step processoutlined by PJM are not a vailable.
- Node a vaila bility consistently changes without notice.
- Market participantsfind an altemative path instead of highlighting the path with the greatest inefficienc $y$. This is further exac erbated by the $+/ \$ 50$ bid cap.
- Prohibits an Up-To Congestion Transaction from being a true hedge for asset owners.


## Concems with Node Availability Cont'd

- Currently, only 150 nodes are linked to generators. There are 1500 generator nodes in PJ M. Thus, $10 \%$ of generators can hedge their RTrisk.
- FIRs currently a llow paths on all 1500 generator nodes.
- Fundamental Flaw: Generators do not ha ve a more granularhedging tool. If there is a unit trip, their short-term hedging a bility is extremely limited.


## Benefits of Expansion

- Market Participants will be able to place price sensitive bids.
- The biasto counterflow will be eliminated.
- Market Participants will bid the a ppropriate path instead of an altemative path.
- Expansion could lead to a sset owning entities using a UTC as a hedge beca use it will be a true hedge and a more granularhedge than an FIR.
- During disc ussions of a spread bid in MISO, several Market Partic ipants stated that they would use a UTC if it were more widely a va ilable in PJ M.


## Benefits of Expansion Contd

- Additional participants are not limited to generators. An expanded product would allow retail providers, independent power products and renewable energy products to be able to hedge and minimize their transmission risks in the DA and RTmarkets.
- Allow for better price convergence as some constraints do not have an eligible UTC path or the bid cap prevents Market Participants from highlighting this constra int.
- Preposition Day-Ahead Market for Real-Time.
- Betterprice discovery overall.


## Concems Regarding Solving DA Model

- PJ M has recently implemented a soft bid cap of 3000 bids. PJ M has the right to enforce that at its disc retion.
- Recent IMM report shows that virtual volumes as whole have steadily inc reased and there was not a signific ant spike when the interface requirement was removed.
- Market participants will not bid more, they will bid smarter.
- Current credit screen and credit polic y will prohibit a signific ant spike in volumes.


## Appendix A: Examples

## Example One

Key Takea way: There is less downside risk if Market Partic ipants can bid at a greater negative value.
This exa mple demonstrates potential Profit a nd Loss numbers at a bid of $-\$ 50,-\$ 100$ a nd \$150.

## Raw Data

|  |  | SOURCE | PNODE | SINK | PNODE | SPREAD |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | MEADOWBROOK 500 KV | 5022440 | BLACKOAK 500 KV | 5022433 |  |  |  |
| DATE | HE | DA | RT | DA | RT | DA | RT | RT LESS DA |
| 3/1/2014 | 7 | 106.70 | 131.72 | 55.04 | 133.45 | -51.66 | 1.73 | 53.39 |
| 3/1/2014 | 8 | 110.03 | 244.15 | 58.75 | 181.31 | -51.28 | -62.84 | -11.56 |
| 3/1/2014 | 9 | 109.17 | 96.44 | 63.80 | 100.37 | -45.37 | 3.93 | 49.30 |
| 3/1/2014 | 10 | 104.64 | 159.43 | 64.90 | 148.08 | -39.74 | -11.35 | 28.39 |
| 3/2/2014 | 7 | 47.21 | 35.99 | 40.05 | 36.08 | -7.16 | 0.09 | 7.25 |
| 3/2/2014 | 8 | 56.43 | 41.46 | 39.95 | 42.94 | -16.48 | 1.48 | 17.96 |
| 3/2/2014 | 9 | 56.21 | 57.94 | 41.67 | 56.85 | -14.54 | -1.09 | 13.45 |
| 3/2/2014 | 10 | 54.70 | 50.21 | 43.52 | 52.30 | -11.18 | 2.09 | 13.27 |
| 3/3/2014 | 7 | 110.57 | 178.96 | 98.10 | 181.86 | -12.47 | 2.90 | 15.37 |
| 3/3/2014 | 8 | 187.74 | 160.99 | 155.80 | 164.18 | -31.94 | 3.19 | 35.13 |
| 3/3/2014 | 9 | 207.87 | 223.07 | 178.93 | 225.77 | -28.94 | 2.70 | 31.64 |
| 3/3/2014 | 10 | 203.70 | 401.46 | 174.64 | 407.00 | -29.06 | 5.54 | 34.60 |
| 3/4/2014 | 7 | 399.81 | 406.44 | 302.19 | 202.69 | -97.62 | -203.75 | -106.13 |
| 3/4/2014 | 8 | 644.84 | 461.61 | 331.54 | 52.69 | -313.30 | -408.92 | -95.62 |
| 3/4/2014 | 9 | 428.83 | 315.85 | 275.02 | 112.42 | -153.81 | -203.43 | -49.62 |
| 3/4/2014 | 10 | 424.61 | 348.54 | 260.14 | 176.53 | -164.47 | -172.01 | -7.54 |
| 3/5/2014 | 7 | 344.81 | 861.89 | 159.00 | -29.40 | -185.81 | -891.29 | -705.48 |


| DATE | PNL |  | DA SPREAD |
| ---: | ---: | ---: | ---: |
| $3 / 1 / 2014$ | 41.83 | -51.47 | -30.56 |
| $3 / 2 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 3 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 4 / 2014$ | -258.91 | -182.30 | -247.03 |
| $3 / 5 / 2014$ | -996.28 | -125.65 | -623.79 |
| $3 / 6 / 2014$ | -150.02 | -61.67 | -136.68 |
| $3 / 7 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 8 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 9 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 10 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 11 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 12 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 13 / 2014$ | -201.03 | -65.94 | -266.97 |
| $3 / 14 / 2014$ | -666.17 | -95.87 | -317.92 |
| $3 / 15 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 16 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 17 / 2014$ | -752.42 | -60.45 | -812.87 |
| $3 / 18 / 2014$ | 136.11 | -89.53 | -44.16 |
| $3 / 19 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 20 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 21 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 22 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 23 / 2014$ | 0.00 | 0.00 | 0.00 |
| $3 / 24 / 2014$ | 37.38 | -85.02 | -47.64 |
| $3 / 25 / 2014$ | 103.25 | -53.22 | -1.60 |
| $3 / 26 / 2014$ | 66.29 | -67.63 | -1.34 |
|  |  |  |  |
| Total | $\$(2,639.97)$ |  |  |
|  |  |  |  |
|  |  |  |  |



| DATE | PNL |  | DA SPREAD | RT SPREAD |
| ---: | ---: | ---: | ---: | ---: |
| $3 / 1 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 2 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 3 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 4 / 2014$ | -152.78 | -210.53 | -261.45 |  |
| $3 / 5 / 2014$ | -705.48 | -185.81 | -891.29 |  |
| $3 / 6 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 7 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 8 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 9 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 10 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 11 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 12 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 13 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 14 / 2014$ | -641.01 | -143.92 | -784.93 |  |
| $3 / 15 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 16 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 17 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 18 / 2014$ | 8.51 | -125.78 | -117.27 |  |
| $3 / 19 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 20 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 21 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 22 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 23 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 24 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 25 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| $3 / 26 / 2014$ | 0.00 | 0.00 | 0.00 |  |
| Total | $\$(1,490.76)$ |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Negative $\$ 100$ Bid PNL



## Example Two

Key Takeaway:
If a Market Partic ipant were to bid $\$ 50$, this example would not have cleared from J a nuary 22, 2014 to J anuary 25,2014 . The prices were simply too volatile and the bid cap prevented Market Partic ipants from pre-positioning the DA Market.
If a Market Participants went aga inst congestion in this example and bid -\$50, it would have cleared every time with the exception of 2 hours during that time period. However, it would have incurred an average loss of \$199 per MW perday.

| Date | HE | DA | RT | Counterflow | Prevailing Flow |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1/22/2014 | 1 | \$173.57 | \$1.73 | \$171.84 | (\$171.84) |
| 1/22/2014 | 2 | \$166.24 | \$5.45 | \$160.79 | (\$160.79) |
| 1/22/2014 | 3 | \$167.32 | \$169.98 | (\$2.66) | \$2.66 |
| 1/22/2014 | 4 | \$152.35 | \$153.78 | (\$1.43) | \$1.43 |
| 1/22/2014 | 5 | \$189.92 | \$110.08 | \$79.84 | (\$79.84) |
| 1/22/2014 | 6 | \$211.13 | \$528.87 | (\$317.74) | \$317.74 |
| 1/22/2014 | 7 | \$270.36 | \$477.60 | (\$207.24) | \$207.24 |
| 1/22/2014 | 8 | \$150.17 | \$780.49 | (\$630.32) | \$630.32 |
| 1/22/2014 | 9 | \$162.92 | \$540.23 | (\$377.31) | \$377.31 |
| 1/22/2014 | 10 | \$134.87 | \$568.34 | (\$433.47) | \$433.47 |
| 1/22/2014 | 11 | \$158.75 | \$342.23 | (\$183.48) | \$183.48 |
| 1/22/2014 | 12 | \$144.49 | \$735.80 | (\$591.31) | \$591.31 |
| 1/22/2014 | 13 | \$87.64 | \$888.37 | (\$800.73) | \$800. 73 |
| 1/22/2014 | 14 | \$103.86 | \$534.68 | (\$430.82) | \$430.82 |
| 1/22/2014 | 15 | \$83.96 | \$441.50 | (\$357.54) | \$357.54 |
| 1/22/2014 | 16 | \$152.54 | \$332.98 | (\$180.44) | \$180.44 |
| 1/22/2014 | 17 | \$128.35 | \$188.76 | (\$60.41) | \$60.41 |
| 1/22/2014 | 18 | \$124.96 | \$1,174.69 | (\$1,049.73) | \$1,049.73 |
| 1/22/2014 | 19 | \$119.39 | \$785.72 | (\$666.33) | \$666.33 |
| 1/22/2014 | 20 | \$178.98 | \$1,060.30 | (\$881.32) | \$881.32 |
| 1/22/2014 | 21 | \$132.54 | \$832.77 | (\$700.23) | \$700.23 |
| 1/22/2014 | 22 | \$131.07 | \$1,143.23 | (\$1,012.16) | \$1,012.16 |
| 1/22/2014 | 23 | \$102.65 | \$829.43 | (\$726.78) | \$726.78 |
| 1/22/2014 | 24 | \$127.78 | \$484.26 | (\$356.48) | \$356.48 |


| $1 / 23 / 2014$ | 1 | $\$ 659.32$ | $\$ 630.02$ | $\$ 29.30$ | $(\$ 29.30)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1 / 23 / 2014$ | 2 | $\$ 533.09$ | $\$ 715.93$ | $(\$ 182.84)$ | $\$ 182.84$ |
| $1 / 23 / 2014$ | 3 | $\$ 495.45$ | $\$ 606.76$ | $(\$ 111.31)$ | $\$ 111.31$ |
| $1 / 23 / 2014$ | 4 | $\$ 600.74$ | $\$ 747.98$ | $(\$ 147.24)$ | $\$ 147.24$ |
| $1 / 23 / 2014$ | 5 | $\$ 600.75$ | $\$ 749.47$ | $(\$ 148.72)$ | $\$ 148.72$ |
| $1 / 23 / 2014$ | 6 | $\$ 970.42$ | $\$ 531.07$ | $\$ 439.35$ | $(\$ 439.35)$ |
| $1 / 23 / 2014$ | 7 | $\$ 805.60$ | $\$ 666.06$ | $\$ 139.54$ | $(\$ 139.54)$ |
| $1 / 23 / 2014$ | 8 | $\$ 619.02$ | $\$ 696.59$ | $(\$ 77.57)$ | $\$ 77.57$ |
| $1 / 23 / 2014$ | 9 | $\$ 702.52$ | $\$ 674.16$ | $\$ 28.36$ | $(\$ 28.36)$ |
| $1 / 23 / 2014$ | 10 | $\$ 456.74$ | $\$ 376.55$ | $\$ 80.19$ | $(\$ 80.19)$ |
| $1 / 23 / 2014$ | 11 | $\$ 644.93$ | $\$ 725.52$ | $(\$ 80.59)$ | $\$ 80.59$ |
| $1 / 23 / 2014$ | 12 | $\$ 650.08$ | $\$ 526.01$ | $\$ 124.07$ | $(\$ 124.07)$ |
| $1 / 23 / 2014$ | 13 | $\$ 503.45$ | $\$ 109.09$ | $\$ 394.36$ | $(\$ 394.36)$ |
| $1 / 23 / 2014$ | 14 | $\$ 556.01$ | $\$ 290.10$ | $\$ 265.91$ | $(\$ 265.91)$ |
| $1 / 23 / 2014$ | 15 | $\$ 568.11$ | $\$ 203.35$ | $\$ 364.76$ | $(\$ 364.76)$ |
| $1 / 23 / 2014$ | 16 | $\$ 587.67$ | $\$ 142.63$ | $\$ 445.04$ | $(\$ 445.04)$ |
| $1 / 23 / 2014$ | 17 | $\$ 541.75$ | $\$ 21.40$ | $\$ 520.35$ | $(\$ 520.35)$ |
| $1 / 23 / 2014$ | 18 | $\$ 674.17$ | $\$ 129.55$ | $\$ 544.62$ | $(\$ 544.62)$ |
| $1 / 23 / 2014$ | 19 | $\$ 211.79$ | $\$ 293.66$ | $(\$ 81.87)$ | $\$ 81.87$ |
| $1 / 23 / 2014$ | 20 | $\$ 413.03$ | $\$ 1,085.80$ | $(\$ 672.77)$ | $\$ 672.77$ |
| $1 / 23 / 2014$ | 21 | $\$ 584.25$ | $\$ 1,182.40$ | $(\$ 598.15)$ | $\$ 598.15$ |
| $1 / 23 / 2014$ | 22 | $\$ 484.71$ | $\$ 1,087.46$ | $(\$ 602.75)$ | $\$ 602.75$ |
| $1 / 23 / 2014$ | 23 | $\$ 552.22$ | $\$ 1,176.23$ | $(\$ 624.01)$ | $\$ 624.01$ |
| $1 / 23 / 2014$ | 24 | $\$ 414.38$ | $\$ 1,103.82$ | $(\$ 689.44)$ | $\$ 689.44$ |


| 1/24/2014 | 1 | \$111.44 | \$547.00 | (\$435.56) | \$435.56 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1/24/2014 | 2 | \$79.01 | \$605.66 | (\$526.65) | \$526.65 |
| 1/24/2014 | 3 | \$107.76 | \$751.81 | (\$644.05) | \$644.05 |
| 1/24/2014 | 4 | \$99.49 | \$890.04 | (\$790.55) | \$790.55 |
| 1/24/2014 | 5 | \$183.09 | \$666.60 | (\$483.51) | \$483.51 |
| 1/24/2014 | 6 | \$224.99 | \$336.57 | (\$111.58) | \$111.58 |
| 1/24/2014 | 7 | \$89.60 | \$1,041.39 | (\$951.79) | \$951.79 |
| 1/24/2014 | 8 | \$813.81 | \$1,472.58 | (\$658.77) | \$658.77 |
| 1/24/2014 | 9 | \$546.46 | \$1,986.78 | (\$1,440.32) | \$1,440.32 |
| 1/24/2014 | 10 | \$518.03 | \$891.13 | (\$373.10) | \$373.10 |
| 1/24/2014 | 11 | \$380.51 | \$739.41 | (\$358.90) | \$358.90 |
| 1/24/2014 | 12 | \$457.41 | \$486.59 | (\$29.18) | \$29.18 |
| 1/24/2014 | 13 | \$433.93 | \$406.54 | \$27.39 | (\$27.39) |
| 1/24/2014 | 14 | \$397.10 | \$539.08 | (\$141.98) | \$141.98 |
| 1/24/2014 | 15 | \$397.51 | \$561.49 | (\$163.98) | \$163.98 |
| 1/24/2014 | 16 | \$371.15 | \$201.03 | \$170.12 | (\$170.12) |
| 1/24/2014 | 17 | \$463.08 | \$332.50 | \$130.58 | (\$130.58) |
| 1/24/2014 | 18 | \$461.23 | \$504.98 | (\$43.75) | \$43.75 |
| 1/24/2014 | 19 | \$583.03 | \$651.25 | (\$68.22) | \$68.22 |
| 1/24/2014 | 20 | \$466.76 | \$740.26 | (\$273.50) | \$273.50 |
| 1/24/2014 | 21 | \$426.45 | \$690.57 | (\$264.12) | \$264.12 |
| 1/24/2014 | 22 | \$430.63 | \$710.02 | (\$279.39) | \$279.39 |
| 1/24/2014 | 23 | \$486.31 | \$524.23 | (\$37.92) | \$37.92 |
| 1/24/2014 | 24 | \$26.01 | \$790.15 | (\$764.14) | \$764.14 |


| 1/25/2014 | 1 | \$289.58 | \$688.32 | (\$398.74) | \$398.74 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1/25/2014 | 2 | \$239.34 | \$648.57 | (\$409.23) | \$409. 23 |
| 1/25/2014 | 3 | \$228.01 | \$661.93 | (\$433.92) | \$433.92 |
| 1/25/2014 | 4 | \$244.35 | \$516.29 | (\$271.94) | \$271.94 |
| 1/25/2014 | 5 | \$245.60 | \$600.64 | (\$355.04) | \$355.04 |
| 1/25/2014 | 6 | \$276.60 | \$314.31 | (\$37.71) | \$37.71 |
| 1/25/2014 | 7 | \$257.27 | \$553.76 | (\$296.49) | \$296.49 |
| 1/25/2014 | 8 | \$697.05 | \$548.65 | \$148.40 | (\$148.40) |
| 1/25/2014 | 9 | \$899.52 | \$569.90 | \$329.62 | (\$329.62) |
| 1/25/2014 | 10 | \$889.00 | \$834.73 | \$54.27 | (\$54.27) |
| 1/25/2014 | 11 | \$583.25 | \$791.16 | (\$207.91) | \$207.91 |
| 1/25/2014 | 12 | \$423.24 | \$612.51 | (\$189.27) | \$189.27 |
| 1/25/2014 | 13 | \$384.80 | \$589.25 | (\$204.45) | \$204.45 |
| 1/25/2014 | 14 | \$366.67 | \$576.36 | (\$209.69) | \$209.69 |
| 1/25/2014 | 15 | \$292.92 | \$483.06 | (\$190.14) | \$190.14 |
| 1/25/2014 | 16 | \$240.90 | \$179.42 | \$61.48 | (\$61.48) |
| 1/25/2014 | 17 | \$299.57 | \$114.91 | \$184.66 | (\$184.66) |
| 1/25/2014 | 18 | \$356.34 | \$308.00 | \$48.34 | (\$48.34) |
| 1/25/2014 | 19 | \$490.31 | \$340.49 | \$149.82 | (\$149.82) |
| 1/25/2014 | 20 | \$451.67 | \$27.02 | \$424.65 | (\$424.65) |
| 1/25/2014 | 21 | \$390. 20 | \$48.03 | \$342.17 | (\$342.17) |
| 1/25/2014 | 22 | \$415.60 | \$198.07 | \$217.53 | (\$217.53) |
| 1/25/2014 | 23 | \$342.32 | \$62.78 | \$279.54 | (\$279.54) |
| 1/25/2014 | 24 | \$7.17 | \$21.95 | (\$14.78) | \$14.78 |

