C00001

Subj: Request for Clarification
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GISB Standards: 1.3.15 and 1.3.16

Using the Pathed Non-Threaded model, should fuel be calculated on the total delivery quantity to all delivery points, or based on each transportation line item? The problem arises when fuel quantities are rounded to the nearest DTH.

Example

Receipts
Loc 1   5000 DTH

Deliveries
Loc 2   3286 DTH
Loc 3   1714 DTH

Transportation
Loc 1 - Loc 2   3286 DTH   Quantity Type Indicator = D
Loc 1 - Loc 3   1714 DTH   Quantity Type Indicator = D

Fuel Ratio = .5% (in this case, it's the same to all delivery points, but it could be different)
Receipts * (1- Fuel Ratio/100) = Deliveries

(1)   Calculating fuel based on total delivery (5000) gives us:
Fuel Quantity = 25.12 = 25 DTH

(2)   Calculating fuel based on each transportation line item gives us
Fuel based on delivery of 3286 = 16.51 = 17 DTH
Fuel based on delivery of 1714 =   8.61 = 9 DTH
Total Fuel Quantity = 26 DTH

The two ways of calculating fuel give different results.

Possible Interpretations:
We at Hatch believe that fuel should be calculated based on each transportation line item for the following reasons:
1)   The quantity type indicator is at the transportation line item level, and could differ from one line item to the other.
2)   Different transportation paths may have different fuel ratios based on the different receipt and delivery points.
3)   Fuel should be taken at the receipt point where the transportation originated. This means we can not simply look at the total amount delivered and ignore the original source of the transportation.

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