

**CASE NO. GR-2009-0434  
THE EMPIRE DISTRICT GAS COMPANY**

**SURREBUTTAL TESTIMONY**

**OF**

**WENDI P. BROWN**

**ON BEHALF OF CONSTELLATION NEWENERGY-GAS DIVISION, LLC**

**SCHEDULE WPB 2**

Small Volume Transportation Customer Balancing Service

Schedule WPB 2.2 – Balancing Cost Calculation based on  
Southern Star Central Gas Pipeline, Inc.

**Small Volume Empire/Southern Star Balancing Cost Calculation**

25%swing (to be applied on top of 10% Southern Star allowance)

Example Daily Load (Dth) to determine a per Dth charge 1000

(Note: since this is a per Dth analysis, the 1000 example daily load is not critical, any basis for daily load can be used and the per Dth charge will result in the same per Dth result)

Assumed Storage MDTQ (assume 25% of daily load) 250

Rate per day \$ 0.0280

Total Deliverability Reservation \$ 7.00

Note: imbalance allowed on pipeline allows another 10% of swing for a total of 35% swing)

Capacity Required (assume that on average 15% of daily load is injected for 30 days =  $1000 \times .25 \times 30$ ). 4500

Capacity Rate \$ 0.00130

Total Capacity Cost \$ 5.85

Daily inject/withdrawal cost (assume on average 15% daily amount) 150

Cost to inject withdraw per Dth \$ 0.01140

Daily inject/withdrawal cost \$ 1.71

Total MDTQ, Capacity, Inject/withdraw cost \$ 14.56

MDTQ 250

Percent of MDTQ that storage is applicable to (transport required) 100%

Rate (market transport) \$ 0.1370

\$ 34.25

Fuel cost on injection (market area only) Gas Cost \$ 5.00

Daily inject cost (assume 15% daily amount) 150

Fuel percent 3.59%

Fuel cost \$ 26.93

Total charges for all sources including transport \$ 75.74

Cost per Dth of daily load \$ 0.0757

**Schedule WPB 2.2**