

**(1910) FUEL ESCALATION CLAUSE**

The provisions set forth in Mn/DOT 1910 are hereby supplemented with the following:

These provisions provide for compensation adjustments in the cost of motor fuels (diesel and gasoline) consumed in prosecuting the Contract work. The Engineer will calculate the Fuel Cost Adjustments. Payments or credits will be applied to partial and final payments for work items set forth herein.

For this purpose, the Department will establish a Base Fuel Index (BFI) for fuel to be used on the Project. The Base Fuel Index will be the average of the high and low rack prices shown for No. 2 ultra low sulfur fuel oil in the "OPIS Energy Group" tabulation titled "RackFax, Minneapolis, MN, OPIS Direct Gross No. 2 Distillate Fuels" *for the day of the Contract letting*.

A Current Fuel Index (CFI) in cents per gallon will be established for each month. The CFI will be the average of the high and low rack prices shown for No. 2 ultra low sulfur fuel oil in the "OPIS Energy Group" tabulation titled "RackFax, Minneapolis, MN, OPIS Direct Gross No. 2 Distillate Fuels" averaged for the beginning and ending dates of the monthly period being adjusted.

The Engineer will compute the ratio of the Current Fuel Index to the Base Fuel Index (CFI/BFI) each month. If that ratio falls between 0.85 and 1.15, no fuel adjustment will be made that month. If the ratio is less than 0.85, a credit to the Department will be computed. If the ratio is greater than 1.15, additional payment to the Contractor will be computed.

Credit or additional payment will be computed as follows:

- (1) The Engineer will estimate the quantity of work done in that month under each of the Contract items listed below.
- (2) The Engineer will compute the gallons of fuel used in that month for each of the Contract items listed below by applying the unit fuel usage factors shown.
- (3) The Engineer will summarize the total gallons (Q) of fuel used in that month for the applicable items.
- (4) The Engineer will determine the Fuel Cost Adjustment (FCA) from the following formulas:

If the Current Fuel Index (CFI) is greater than the Base Fuel Index (BFI), the following formula shall be used to determine the amount of Fuel Cost Adjustment to be paid to the Contractor.

$$FCA = [(CFI/BFI) - 1.15] \times Q \times BFI$$

If the Current Fuel Index (CFI) is less than the Base Fuel Index (BFI), the following formula shall be used to determine the amount of Fuel Cost Adjustment to be credited to the Department.

$$FCA = [(CFI/BFI) - 0.85] \times Q \times BFI$$

Where FCA = Fuel Cost Adjustment (cents)  
 CFI = Current Fuel Index (cents per gallon)  
 BFI = Base Fuel Index (cents per gallon)  
 Q = Monthly total gallons of fuel

### Basis of Payment

A Fuel Cost Adjustment payment to the Contractor will be made as a lump sum each payment period based on the last published CFI. A Fuel Cost Adjustment credit to the Department will be deducted as a lump sum each payment period from any monies due the Contractor. Upon completion of the work under the Contract, any difference between the estimated quantities previously paid and the final quantities will be determined. The CFI in effect on the day of completion of the Contract will be applied to the quantity differences in accordance with the procedures set forth above.

### Schedule of Work Items

(Only items shown will be considered for compensation adjustments.)

| Item           | Unit  | Gallons<br>of Fuel<br>per Unit | Unit | Gallons<br>of Fuel<br>per Unit |
|----------------|---|--------------------------------|------|--------------------------------|
| (1) Earthwork: |   |                                |      |                                |
| 2105.501       | Common Excavation                                   | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |
| 2105.503       | Rock Excavation                                     | Cu. Yd                         | 0.27 | m <sup>3</sup> 0.35            |
| 2105.505       | Muck Excavation                                     | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |
| 2105.507       | Subgrade Excavation                                 | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |
| 2105.515       | Unclassified Excavation                             | Cu. Yd                         | 0.23 | m <sup>3</sup> 0.30            |
| 2105.521       | Granular Borrow (EV)                                | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |
|                | Granular Borrow (CV)                                | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
|                | Granular Borrow (LV)                                | Cu. Yd                         | 0.14 | m <sup>3</sup> 0.18            |
| 2105.522       | Select Granular Borrow (EV)                         | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |
|                | Select Granular Borrow (CV)                         | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
|                | Select Granular Borrow (LV)                         | Cu. Yd                         | 0.14 | m <sup>3</sup> 0.18            |
| 2105.523       | Common Borrow (EV)                                  | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |
|                | Common Borrow (CV)                                  | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
|                | Common Borrow (LV)                                  | Cu. Yd                         | 0.14 | m <sup>3</sup> 0.18            |
| 2105.535       | Topsoil Borrow (EV)                                 | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |
|                | Topsoil Borrow (CV)                                 | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
|                | Topsoil Borrow (LV)                                 | Cu. Yd                         | 0.14 | m <sup>3</sup> 0.18            |
| 2106.607       | Common Embankment (CV)                              | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
| 2106.607       | Granular Embankment (CV)                            | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
| 2106.607       | Select Granular Embankment(CV)                      | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
| 2106.607       | Select Granular Embankment Modified (___ %)<br>(CV) | Cu. Yd                         | 0.19 | m <sup>3</sup> 0.25            |
| 2106.607       | Excavation – Rock                                   | Cu. Yd                         | 0.27 | m <sup>3</sup> 0.35            |
| 2106.607       | Excavation – Muck                                   | Cu. Yd                         | 0.17 | m <sup>3</sup> 0.22            |

|                            | Item   | Unit     | Gallons<br>of Fuel<br>per Unit | Unit           | Gallons<br>of Fuel<br>per Unit |
|----------------------------|--|----------|--------------------------------|----------------|--------------------------------|
| (2) Aggregate Base:        |  |          |                                |                |                                |
| 2211.501                   | Aggregate Base                               | Ton      | 0.55                           | t              | 0.61                           |
| 2211.502                   | Aggregate Base (LV)                          | Cu. Yd   | 0.77                           | m <sup>3</sup> | 1.01                           |
| 2211.503                   | Aggregate Base (CV)                          | Cu. Yd   | 0.99                           | m <sup>3</sup> | 1.29                           |
| 2211.607                   | Open Graded Aggregate Base (CV)              | Cu. Yd   | 0.99                           | m <sup>3</sup> | 1.29                           |
| (3) Aggregate Shouldering: |  |          |                                |                |                                |
| 2221.501                   | Aggregate Shouldering                        | Ton      | 0.55                           | t              | 0.61                           |
| 2221.502                   | Aggregate Shouldering (LV)                   | Cu. Yd   | 0.77                           | m <sup>3</sup> | 1.01                           |
| 2221.503                   | Aggregate Shouldering (CV)                   | Cu. Yd   | 0.99                           | m <sup>3</sup> | 1.29                           |
| (4) Concrete Pavements:    |  |          |                                |                |                                |
| 2301.511                   | Structural Concrete                          | Cu. Yd   | 0.98                           | m <sup>3</sup> | 1.28                           |
| 2301.513                   | Structural Concrete HE                       | Cu. Yd   | 0.98                           | m <sup>3</sup> | 1.28                           |
| 2301.604                   | Structural Concrete                          | Sq. Yd.  | 0.027*t                        | m <sup>2</sup> | 0.00128*t                      |
| (5) Bituminous Pavements:  |  |          |                                |                |                                |
| 2350.501                   | Type ( ) Wearing Course Mixture ( )          | Ton      | 0.90                           | t              | 0.99                           |
| 2350.502                   | Type ( ) Non-Wearing Course Mixture ( )      | Ton      | 0.90                           | t              | 0.99                           |
| 2350.503                   | Type ( ) ( ) Course ( , ) (t)" Thick         | Sq. Yd   | 0.051*t                        |                |                                |
| 2350.503                   | Type ( ) ( ) Course ( , ) (t) mm Thick       |          |                                | m <sup>2</sup> | 0.0024*t                       |
| 2360.501                   | Type SP ( ) Wearing Course Mixture ( )       | Ton      | 0.90                           | t              | 0.99                           |
| 2360.502                   | Type SP ( ) Non-Wearing Course Mixture ( , ) | Ton      | 0.90                           | t              | 0.99                           |
| 2360.503                   | Type SP ( ) ( ) Course ( , ) (t)" thick      | Sq. Yd   | 0.051*t                        |                |                                |
| 2360.503                   | Type SP ( ) ( ) Course ( , ) (t) mm thick    |          |                                | m <sup>2</sup> | 0.0024*t                       |
| (6) Pipe: ***              |  |          |                                |                |                                |
| 2501.511                   | ___ ___ Pipe Culvert ___                     | Lin. Ft. | 0.70                           | m              | 2.30                           |
| 2501.521                   | ___ ___ Pipe Arch Culvert ___                | Lin. Ft. | 0.70                           | m              | 2.30                           |
| 2501.561                   | ___ ___ Pipe Culvert Des 3006 ___            | Lin. Ft. | 0.70                           | m              | 2.30                           |
| 2501.603                   | ___ Pipe Culvert                             | Lin. Ft. | 0.70                           | m              | 2.30                           |
| 2503.511                   | ___ ___ Pipe Sewer ___                       | Lin. Ft. | 0.70                           | m              | 2.30                           |
| 2503.521                   | ___ ___ Pipe Arch Sewer ___                  | Lin. Ft. | 0.70                           | m              | 2.30                           |
| 2503.541                   | ___ ___ Pipe Sewer Des 3006 ___              | Lin. Ft. | 0.70                           | m              | 2.30                           |
| 2503.603                   | ___ ___ Pipe Sewer                           | Lin. Ft. | 0.70                           | m              | 2.30                           |

*t* = thickness (in inches or mm)

**NOTE:** No price adjustments will be made on fuel used for drying and heating aggregates.

\*\*\* No price adjustment will be made for pipes less than 12" in diameter or jacked pipes.