

# Fuel Oil & Natural Gas Conversion Worksheet

## HESS CORPORATION

**>PRICE CONVERSIONS:**

**To Convert Fuel Oil Price, (per gallon), to Natural Gas Price, (per therm):**

|             |                |   |                         |   |                                     |
|-------------|----------------|---|-------------------------|---|-------------------------------------|
| <u>Fuel</u> | <u>*Factor</u> | x | <u>Price Per Gallon</u> | = | <u>Gas Equivalent<br/>Per Therm</u> |
| No. _____ : | _____          |   | \$ _____                |   | \$ _____                            |

**Example:** Price Per Gallon No. 2 Fuel = \$ 3.00; Factor = 0.7258  
 \$ 3.00 per gallon x 0.7258 = \$2.177 per therm. (In "dekatherms" = \$21.77)

**To Convert Natural Gas Price, (per therm), to Fuel Oil Price, (per gallon):**

|                     |                        |            |                |   |   |
|---------------------|------------------------|------------|----------------|---|---|
| <u>Fuel:</u>        | <u>Price Per Therm</u> | divided by | <u>*Factor</u> | = | <u>Fuel Oil Equivalent<br/>Per Gallon</u> |
| <u>Natural Gas:</u> | \$ _____               |            | _____          |   | \$ _____                                  |

**Example:** \*Price per therm 'burnertip' = \$1.38; Factor = 0.7258, (Assuming No. 2 Fuel Oil)  
 \$ 1.38 per therm divided by 0.7258 = \$1.9014 per gallon equivalent of No. 2 fuel.  
 (\*To compare "burnertip" pricing you should add the cost of the utility's transportation charge to the cost of the natural gas commodity)

**>VOLUME CONVERSIONS:**

**To Convert Fuel Oil Volume, (in gallons), to Natural Gas Volume, (in therms):**

|             |                       |            |                |   |  |
|-------------|-----------------------|------------|----------------|---|--|
| <u>Fuel</u> | <u>Volume (Gals.)</u> | divided by | <u>*Factor</u> | = | <u>Gas Equivalent<br/>Volume (In Therms)</u> |
| No. _____ : | _____                 |            | _____          |   | _____  |

**Example:** Volume = 80,000 gallons No. 2; Factor = 0.7258  
 80,000 divided by 0.7258 = 110,223 therms of natural gas

**To Convert Natural Gas Volume, (in therms), to Fuel Oil Volume, (in gallons):**

|                     |                                 |   |                |   |   |
|---------------------|---------------------------------|---|----------------|---|---|
| <u>Fuel:</u>        | <u>Gas Volume<br/>In Therms</u> | x | <u>*Factor</u> | = | <u>Fuel Oil Equivalent<br/>(In Gallons)</u> |
| <u>Natural Gas:</u> | _____                           |   | _____          |   | _____                                       |

**Example:** Volume = 100,000 therms; No. 2 Factor = 0.7258  
 100,000 x 0.7258 = 72,580 Gallons of No. 2 Fuel

**Worksheet Notes:**

- \*Factor: Number of gallons of fuel oil to produce 100,000 BTUs
- Therm: 100,000 BTUs of natural gas
- Dth: Dekatherm (see below)
- Dekatherm: 1,000,000 BTUs of natural gas, (Equals 10 therms; a.k.a. "MMBTU")
- \*Burnertip price Price of natural gas including commodity, taxes and utility transportation

|          |                |        |
|----------|----------------|--------|
|          | Typical Hess   | Factor |
| Fuel Oil | BTU Per Gallon |        |
| No. 2 B2 | 137,780        | .7258  |

|                |                |        |
|----------------|----------------|--------|
|                | Typical Hess   | Factor |
| Fuel Oil       | BTU Per Gallon |        |
| No. 4 0.15% B2 | 143,437        | .6972  |
| No. 6 0.3% B2  | 148,560        | .6731  |

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