Exhibit $\qquad$ (GRS-5), Page 1 of 5
Total Annual Dollar Return on Net Depreciated Investment Based on a $\$ 100$ Investment with a 4 Year Life


Exhibit $\qquad$ (GRS-5), Page 2 of 5
Return on Net Depreciated Investment Based on Different Cost of Service Methods

| Cost of Service Method | Item | Year <br> 0 | Year 1 | Year 2 | Year 3 | Year 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Depreciated Original Cost | Return |  | \$15.00 | \$11.25 | \$7.50 | \$3.75 |
|  | Discounted Present Value Factor at 15\% |  | 0.870 | 0.756 | 0.658 | 0.572 |
|  | Discounted Present Value of Return |  | \$13.04 | \$8.51 | \$4.93 | \$2.14 |
|  | Total Discounted Present Value of Return | \$28.63 |  |  |  |  |
|  | Internal Rate of Return | 15.00\% |  |  |  |  |
| Trended Original Cost | Return |  | \$12.00 | \$10.36 | \$8.69 | \$8.12 |
|  | Discounted Present Value Factor at 15\% |  | 0.870 | 0.756 | 0.658 | 0.572 |
|  | Discounted Present Value of Return |  | \$10.43 | \$7.83 | \$5.71 | \$4.64 |
|  | Total Discounted Present Value of Return | \$28.63 |  |  |  |  |
|  | Internal Rate of Return | 15.00\% |  |  |  |  |
| Trended Original Cost to | Return excluding Deferred Earnings |  | \$12.00 | \$9.00 | \$7.50 | \$3.75 |
| Depreciated Original Cost | Recovery of Deferred Earnings |  | \$0.00 | \$1.36 | \$0.00 | \$0.00 |
| Without a Recovery of | Total Return |  | \$12.00 | \$10.36 | \$7.50 | \$3.75 |
| Deferred Earnings in Year 3 and 4 | Discounted Present Value Factor at 15\% |  | 0.870 | 0.756 | 0.658 | 0.572 |
|  | Discounted Present Value of Return |  | \$10.43 | \$7.83 | \$4.93 | \$2.14 |
|  | Total Discounted Present Value of Return | \$25.34 |  |  |  |  |
|  | Internal Rate of Return | 13.30\% |  |  |  |  |
| Trended Original Cost to | Return excluding Deferred Earnings |  | \$12.00 | \$9.00 | \$7.50 | \$3.75 |
| Depreciated Original Cost | Recovery of Deferred Earnings |  | \$0.00 | \$1.36 | \$2.67 | \$2.67 |
| With an Equal Amount | Total Return |  | \$12.00 | \$10.36 | \$10.17 | \$6.42 |
| Recovery of | Discounted Present Value Factor at 15\% |  | 0.870 | 0.756 | 0.658 | 0.572 |
| Deferred Earnings inYear 3 and 4 | Discounted Present Value of Return |  | \$10.43 | \$7.83 | \$6.69 | \$3.67 |
|  | Total Discounted Present Value of Return | \$28.63 |  |  |  |  |
|  | Internal Rate of Return | 15.00\% |  |  |  |  |

Exhibit $\qquad$ (GRS-5), Page 3 of 5
Total Annual Dollar Return on Net Depreciated Investment Based on a $\$ 100$ Investment with a 4 Year Life With Deferred Earnings Recovery to DOC if There is a Change from TOC to DOC After Year 2


## Exhibit <br> $\qquad$ <br> (GRS-5), Page 4 of 5

Example of Depreciated Original Cost and Trended Original Cost for a 4 Year Investment

| Line | Item | Source | Depreciated Original Cost |  |  |  |  | Trended Original Cost |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { Year } \\ 0 \end{gathered}$ | Year $1$ | $\begin{gathered} \text { Year } \\ 2 \end{gathered}$ | $\begin{gathered} \text { Year } \\ 3 \end{gathered}$ | $\begin{gathered} \text { Year } \\ 4 \end{gathered}$ | $\begin{gathered} \text { Year } \\ 0 \end{gathered}$ | Year 1 | Year | $\begin{gathered} \text { Year } \\ 3 \end{gathered}$ | $\begin{gathered} \text { Year } \\ 4 \end{gathered}$ |
| 1 | Start of Year Investment | Prior Line 3 |  | \$100.00 | \$75.00 | \$50.00 | \$25.00 |  | \$100.00 | \$75.00 | \$50.00 | \$25.00 |
| 2 | Depreciation | 4 Year Life |  | \$25.00 | \$25.00 | \$25.00 | \$25.00 |  | \$25.00 | \$25.00 | \$25.00 | \$25.00 |
| 3 | End of Year Investment | Line (1-2) |  | \$75.00 | \$50.00 | \$25.00 | \$0.00 |  | \$75.00 | \$50.00 | \$25.00 | \$0.00 |
| 4 | Real Equity Return | Input |  | 12.0\% | 12.0\% | 12.0\% | 12.0\% |  | 12.0\% | 12.0\% | 12.0\% | 12.0\% |
| 5 | Inflation | Input |  | 3.0\% | 3.0\% | 3.0\% | 3.0\% |  | 3.0\% | 3.0\% | 3.0\% | 3.0\% |
| 6 | Nominal Equity Return | Line ( $4+5$ ) |  | 15.0\% | 15.0\% | 15.0\% | 15.0\% |  | 15.0\% | 15.0\% | 15.0\% | 15.0\% |
| 7 | Real Equity Return on Investment | Line ( 1 * 4) |  | \$12.00 | \$9.00 | \$6.00 | \$3.00 |  | \$12.00 | \$9.00 | \$6.00 | \$3.00 |
| 8 | Inflation Return on Investment | Line ( 1 * 5) |  | \$3.00 | \$2.25 | \$1.50 | \$0.75 |  | n/a | n/a | n/a | n/a |
| 9 | Total Equity Return on Investment | Line ( $7+8$ ) |  | \$15.00 | \$11.25 | \$7.50 | \$3.75 |  | n/a | n/a | n/a | n/a |
| 10 | Deferred Earnings | Line ( 1 * 5 ) |  |  |  |  |  |  | \$3.00 | \$2.25 | \$1.50 | \$0.75 |
| 11 | Inflation Return on Deferred Earnings | Prior Line 18 * Line 5 |  |  |  |  |  |  | \$0.00 | \$0.09 | \$0.13 | \$0.11 |
| 12 | Total Deferred Earnings Created | Line (10 + 11) |  |  |  |  |  |  | \$3.00 | \$2.34 | \$1.63 | \$0.86 |
| 13 | Amortization of Year 1 Total Deferred Earnings Created | Line 21 of Year 1/3 |  |  |  |  |  |  |  | \$1.00 | \$1.00 | \$1.00 |
| 14 | Amortization of Year 2 Total Deferred Earnings Created | Line 21 of Year 2 / 2 |  |  |  |  |  |  |  |  | \$1.17 | \$1.17 |
| 15 | Amortization of Year 3 Total Deferred Earnings Created | Line 21 of Year 3/1 |  |  |  |  |  |  |  |  |  | \$1.63 |
| 16 | Amortization of Year 4 Total Deferred Earnings Created | Line 21 of Year 4/1 |  |  |  |  |  |  |  |  |  | \$0.86 |
| 17 | Total Amortization of Deferred Earnings | Sum Lines (13 to 16) |  |  |  |  |  |  | \$0.00 | \$1.00 | \$2.17 | \$4.66 |
| 18 | End of Year Deferred Earnings | Prior Line $18+$ Line (12-17) |  |  |  |  |  |  | \$3.00 | \$4.34 | \$3.80 | \$0.00 |
| 19 | Real Return on Deferred Earnings | Prior Line 18 * Line 4 |  |  |  |  |  |  | \$0.00 | \$0.36 | \$0.52 | \$0.46 |
| 20 | Real Equity Return on Investment | Line 7 |  | \$12.00 | \$9.00 | \$6.00 | \$3.00 |  | \$12.00 | \$9.00 | \$6.00 | \$3.00 |
| 21 | Inflation Return on Investment | Line 8 |  | \$3.00 | \$2.25 | \$1.50 | \$0.75 |  | n/a | n/a | n/a | n/a |
| 22 | Total Amortization of Deferred Earnings | Line 17 |  | n/a | n/a | n/a | n/a |  | \$0.00 | \$1.00 | \$2.17 | \$4.66 |
| 23 | Real Return on Deferred Earnings | Line 19 |  | n/a | n/a | n/a | n/a |  | \$0.00 | \$0.36 | \$0.52 | \$0.46 |
| 24 | Total Equity Return on Investment | Sum Lines (20 to 23) |  | \$15.00 | \$11.25 | \$7.50 | \$3.75 |  | \$12.00 | \$10.36 | \$8.69 | \$8.12 |
| 25 | Percentage Return on Investment | Line (24/1) |  | 15.00\% | 15.00\% | 15.00\% | 15.00\% |  | 12.00\% | 13.81\% | 17.38\% | 32.48\% |
| 26 | Present Value Factor | (1/ ( $1+$ Line 6)) * Prior Line 26 |  | 0.870 | 0.756 | 0.658 | 0.572 |  | 0.870 | 0.756 | 0.658 | 0.572 |
| 27 | Present Value of Total Equity Return on Investment | Line (24*26) |  | \$13.04 | \$8.51 | \$4.93 | \$2.14 |  | \$10.43 | \$7.83 | \$5.71 | \$4.64 |
| 28 | Return of Investment (through depreciation) | Line 2 |  | \$25.00 | \$25.00 | \$25.00 | \$25.00 |  | \$25.00 | \$25.00 | \$25.00 | \$25.00 |
| 29 | Present Value Factor | Line 26 |  | 0.870 | 0.756 | 0.658 | 0.572 |  | 0.870 | 0.756 | 0.658 | 0.572 |
| 30 | Present Value of Return of Investment | Line (28*29) |  | \$21.74 | \$18.90 | \$16.44 | \$14.29 |  | \$21.74 | \$18.90 | \$16.44 | \$14.29 |
| 31 | Total Present Value of Total Equity Return on Investment | Sum Line 27 Years 1 to 4 | \$28.63 |  |  |  |  | \$28.63 |  |  |  |  |
| 32 | Total Present Value of Return of Investment | Sum Line 30 Years 1 to 4 | \$71.37 |  |  |  |  | \$71.37 |  |  |  |  |
| 33 | Total Present Value of Return of Investment and on Investment | Line ( $31+32$ ) | \$100.00 |  |  |  |  | \$100.00 |  |  |  |  |
| 34 | Internal Rate of Return Cashflows | Negative of Line 1 Yr 1 or Line (25+28) | (\$100.00) | \$40.00 | \$36.25 | \$32.50 | \$28.75 | (\$100.00) | \$37.00 | \$35.36 | \$33.69 | \$33.12 |
| 35 | Internal Rate of Return | Internal Rate of Return Calculation |  | 15\% |  |  |  |  | 15\% |  |  |  |

# Exhibit___ (GRS-5), Page 5 of 5 

Example of Changing from Trended Original Cost to Depreciated Original Cost After Year 2 for a 4 Year Investment
Without and With Recovery of Deferred Earnings

| Line | Item | Source | Without Recovery of Deferred Earnings |  |  |  |  | With Recovery of Deferred Earnings in Years 3 and 4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { Year } \\ 0 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Year } \\ 1 \end{gathered}$ | $\begin{gathered} \text { Year } \\ 2 \end{gathered}$ | $\begin{aligned} & \text { Year } \\ & 3 \end{aligned}$ | Year $\begin{array}{r} \text { Year } \\ \hline \end{array}$ | $\begin{gathered} \text { Year } \\ 0 \end{gathered}$ | $\begin{gathered} \text { Year } \\ 1 \end{gathered}$ | $\begin{aligned} & \text { Year } \\ & 2 \end{aligned}$ | $\begin{aligned} & \text { Year } \\ & 3 \end{aligned}$ | Year <br> 4 |
| 1 | Start of Year Investment | Prior Line 3 |  | \$100.00 | \$75.00 | \$50.00 | \$25.00 |  | \$100.00 | \$75.00 | \$50.00 | \$25.00 |
| 2 | Depreciation | 4 Year Life |  | \$25.00 | \$25.00 | \$25.00 | \$25.00 |  | \$25.00 | \$25.00 | \$25.00 | \$25.00 |
| 3 | End of Year Investment | Line ( $1-2$ ) |  | \$75.00 | \$550.00 | \$25.00 | \$0.00 |  | \$75.00 | \$50.00 | \$25.00 | \$0.00 |
| 4 | Real Equity Return | Input |  | 12.0\% | 12.0\% | 12.0\% | 12.0\% |  | 12.0\% | 12.0\% | 12.0\% | 12.0\% |
| 5 | Inflation | Input |  | 3.0\% | 3.0\% | 3.0\% | 3.0\% |  | 3.0\% | 3.0\% | 3.0\% | 3.0\% |
| 6 | Nominal Equity Return | Line (4+5) |  | 15.0\% | 15.0\% | 15.0\% | 15.0\% |  | 15.0\% | 15.0\% | 15.0\% | 15.0\% |
| 7 | Real Equity Return on Investment | Line ( 1 * 4) |  | \$12.00 | \$9.00 | \$6.00 | \$3.00 |  | \$12.00 | \$9.00 | \$6.00 | \$3.00 |
| 8 | Inflation Return on Investment | Line ( 1 * 5 ) |  | n/a | n/a | \$1.50 | \$0.75 |  | n/a | n/a | \$1.50 | \$0.75 |
| 9 | Total Equity Return on Investment | Line ( $7+8$ ) |  | n/a | n/a | \$7.50 | \$3.75 |  | n/a | n/a | \$7.50 | ${ }^{\text {S3.75 }}$ |
| 10 | Deferred Earrings | Line ( $1 * 5$ ) |  | \$3.00 | \$2.25 |  |  |  | \$3.00 | \$2.25 | n/a | n/a |
| 11 | Inflation Return on Deferred Earnings | Prior Line $18{ }^{*}$ Line 5 |  | \$0.00 | \$0.09 |  |  |  | \$0.00 | \$0.09 | \$0.13 | \$0.07 |
| 12 | Total Deferred Earnings Created | Line ( $10+11$ ) |  | \$3.00 | \$2.34 |  |  |  | \$3.00 | \$2.34 | \$0.13 | \$0.07 |
| 13 | Amorization of Year 1 Total Deferred Earnings Created | Line 21 of Year 1/3 |  |  | \$1.00 |  |  |  |  | \$1.00 | \$1.00 | \$1.00 |
| 14 | Amortization of Year 2 Total Deferred Eamings Created | Line 21 of Year $2 / 2$ |  |  |  |  |  |  |  |  | \$1.17 | \$1.17 |
| 15 | Amortization of Year 3 Total Deferred Eamings Created | Line 21 of Year 3/1 |  |  |  |  |  |  |  |  |  | \$0.13 |
| 16 | Amortization of Year 4 Total Deferred Earnings Created | Line 21 of Year 4/1 |  |  |  |  |  |  |  |  |  | \$0.07 |
| 17 | Total Amortization of Deferred Earnings | Sum Lines (13 to 16) |  | \$0.00 | \$1.00 |  |  |  | S0.00 | \$1.00 | \$2.17 | \$2.37 |
| 18 | End of Year Deferred Earrings | Prior Line $18+$ Line (12-17) |  | \$3.00 | \$4.34 |  |  |  | \$3.00 | \$4.34 | \$2.30 | \$0.00 |
| 19 | Real Return on Deferred Earnings | Prior Line 18*Line 4 |  | \$0.00 | \$0.36 |  |  |  | \$0.00 | \$0.36 | \$0.52 | \$0.28 |

Equity Return on Investment (Deferred Earrings Amortization Based on TOC
amorization and it is not set to equal amounts in this section of the table): Real Equity Return on Investment
Inflation Return on IIvestment
Total Amortization of Deferred Earnings
Real Return on Deferred Earnings
Total Equity Return on Investment
Percentage Return on Investment
Present Value Factor
Present Value of Total Equity Return on Investment
Return of Investment (through depreciation)
Present Value Factor
Present Value Factor
Present Value of Return of Investment
Total Present Value of Total Equity Return on Investme
Total Present Value of Return of Investment
Total Present Value of Return of Investment and on Investment
Internal Rate of Return Cashfiows
Internal Rate of Return


| \$12.00 | \$9.00 | \$6.00 | \$3.00 |
| :---: | :---: | :---: | :---: |
| n/a | n/a | \$1.50 | \$0.75 |
| \$0.00 | \$1.00 | n/a | n/a |
| \$0.00 | \$0.36 | n/a | n/a |
| \$12.00 | \$10.36 | \$7.50 | \$3.75 |
| 12.00\% | 13.81\% | 15.00\% | 15.00\% |
| 0.870 | 0.756 | 0.658 | 0.572 |
| \$10.43 | \$7.83 | \$4.93 | \$2.14 |
| \$25.00 | \$25.00 | \$25.00 | \$25.00 |
| 0.870 | ${ }^{0.756}$ | 0.658 | 0.572 |



| Line 2 |  | \$25.00 | \$25.00 | \$25.00 | \$25.00 |  | \$25.00 | \$25.00 | \$25.00 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line 26 |  | 0.870 | 0.756 | 0.658 | 0.572 |  | ${ }^{3} 8.870$ | ${ }^{0.756}$ | ${ }^{0.658}$ | 0.572 |
| Line ( 28 * 29 ) |  | \$21.74 | \$18.90 | \$16.44 | \$14.29 |  | \$21.74 | \$18.90 | \$16.44 | \$14.29 |
| Sum Line 27 Years 1 to 4 | \$25.34 |  |  |  |  | \$28.63 |  |  |  |  |
| Sum Line 30 Years 1 to 4 | \$71.37 |  |  |  |  | \$71.37 |  |  |  |  |
| Line (31 + 32) | \$96.72 |  |  |  |  | \$100.00 |  |  |  |  |
| Negative of Line 1 Yr 1 or Line (24+28) Internal Rate of Return Calculation | (\$100.00) | $\begin{aligned} & \$ 37.00 \\ & 13.30 \% \end{aligned}$ | \$35.36 | \$32.50 | \$28.75 | (\$100.00) | $\begin{aligned} & \$ 37.00 \\ & 15.00 \% \end{aligned}$ | \$35.36 | \$35.19 | \$31.40 |

Value of Deferred Earnings if Continued Under TOC Amortization:
Total Defefreed Earnings

Total Deferred Earnings
Present Value Factor
Present Value of Deferred Earnings at Year 2
TOt Pasent
Sum Line 38 Years 3 to 4

Negative of Line 1 Yr 1 or Line $(24+28)$
Internal Rate of Return Calculation
$\$ 37.00$
$13.30 \%$
$\$ 37.00$
$15.00 \%$$\$ 35.36$
$\$ 35.19 \quad \$ 31.40$

Sum Line 38 Years 3 to 4
$\begin{array}{ll}\$ 2.69 & \$ 2.65 \\ 0.870 & \\ \$ 2.756 \\ \$ 2.34 & \$ 2.00\end{array}$
Total Present Value of Deferred Earnings at Year 2
Computed so Line $38=$ Line 43

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Equal Amortization of Deferred Earnings in Year 3 and 4 | Computed so Line $38=$ Line 43 |  | \$2.67 | \$2.67 |
| Present Value Factor Present Value of Deferred Earnings at Yea | Line 6) * * Priol Line 41 |  | 370 | 0.756 $\$ 2.02$ |
| Total Present Value of Deferred Earnings at Year 2 | Sum Line 42 Years 3 to | \$4.3 | \$2.32 | \$2.02 |

Present Value of Deferred Earnings at Year 2 2
Total Present Value of Deferred Earnings at Year 2
Sum Line 42 Years 3 to
$\$ 4.34$
$\frac{\text { Return on Equity Investment (if Equal Recovery }}{\text { of Deferred Earnings in Year } 3 \text { and 4): }}$

```
Of Deferred Earnings in Year 3 and 4):
L
DDefered Earnings Recovery for Years 1 and 2
Total Return an Equity Investment with an Equal Recovery of Deferred Earnings
Present Value Factor
```

Total Present Value of Return of Investment
Line 20
Line 21
Line $22+23$ for $\mathbf{Y r}$
Line (22 +23 fine fry 1 and 2 Only
Line 40 for $Y$ Y 3 and 4 Only
Sum
Line 40 for Yr 3 and 4 Only
Sum Lines ( 44 to 47 )

Sum Line 50 Years 1 to 4

Total Present Value of Return of Investment



