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AVISTA UTILITIES PROOF

If market price exceeds book value, the market-to-book ratio is greater than 1.0, and the earnings-price ratio understates the cost of capital.

> MP = market price BV = book value i = cost of equity capital r = earned return E = earnings

- 1. At MP = BV, $i = r = \frac{E}{MP}$.
- 2. E = rBV.

4.

3 Then
$$\frac{E}{E} - \frac{rBV}{rBV}$$

$$3. \text{ MP}^{-} \text{MP}^{-}$$

When BV < MP, i.e.,
$$\frac{BV}{MP}$$
 <1, then,
a. $\frac{E}{MP}$ < r, since $\frac{E}{MP} = \frac{rBV}{MP}$ < r, because $\frac{BV}{MP}$ < 1;
b. i < r, since at $\frac{BV}{MP} = 1$, $i = \frac{E}{MP} = \frac{rBV}{MP}$, but if $\frac{BV}{MP}$ < 1, then i < r; and
c. $\frac{E}{MP}$ < i, since at $\frac{BV}{MP} = 1$, $i = \frac{E}{MP} = \frac{rBV}{MP}$, but if $\frac{BV}{MP}$ < 1, then $\frac{E}{MP}$ < i, because,
1) $\frac{BV}{MP}$ < 1, through MP increasing, and, if so, $\frac{E}{MP}$ decreases, therefore, $\frac{E}{MP}$ < i, or
2) $\frac{BV}{MP}$ < 1, through BV decreasing, and, if so, given E = rBV, $\frac{E}{MP}$ decreases, therefore, $\frac{E}{MP}$ < i.

5. Ergo, $\frac{E}{MP} < i < r$, the earnings-price ratio is lower than the cost of capital, which is lower than the earned return.