































SEVENTS ROTTEVEST



We want a value where the probability of exceeding it is .85, which is the probability associated with the high load forecast. Since we have normality

$$\Pr\left[\frac{\alpha_{L}}{20} * \varepsilon_{L,i} < \frac{\alpha_{L}}{20} * z_{.85}\right] = .85$$

Thus we set

$$b = \frac{\alpha_L}{20} * z_{.85}$$

Which implies

$$\alpha_L = \frac{20b}{z_{B5}}$$

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This gives $\alpha_F = .0102$, $\alpha_L = .0632$ and $\alpha_Q = .0221$

Northwest Power and Conservation Council











