**JAMBA #473**

**Eqn1 replacement:**

**Text replacement:**

where *ϕ* stands for the cumulative lognormal distribution, *ds* is the expected damage, *Sd* is the spectral displacement and *Sd,dsi* and *βdsi* are the median values and standard deviations of the corresponding normal distributions. For each capacity curve, we calculate the four average displacement values in which the building reaches the limit of damage state (Sd1, Sd2, Sd3, Sd4).