IEEE 39-Bus New England System — CCT Error vs Damping Ratio
10 generators · shaded band = min/max across machines

- 5% accuracy gate
- EAC (D = 0 formula)
- EAC + correction (a = 1.51)

$\zeta^* = 0.01$ (raw EAC)

$\zeta^* = 0.20$ (corrected) max error 2.73% (Q ≥ 2)

generator spread

|CCT error| [%]

Damping ratio $\zeta = D / (2 M \omega_0)$