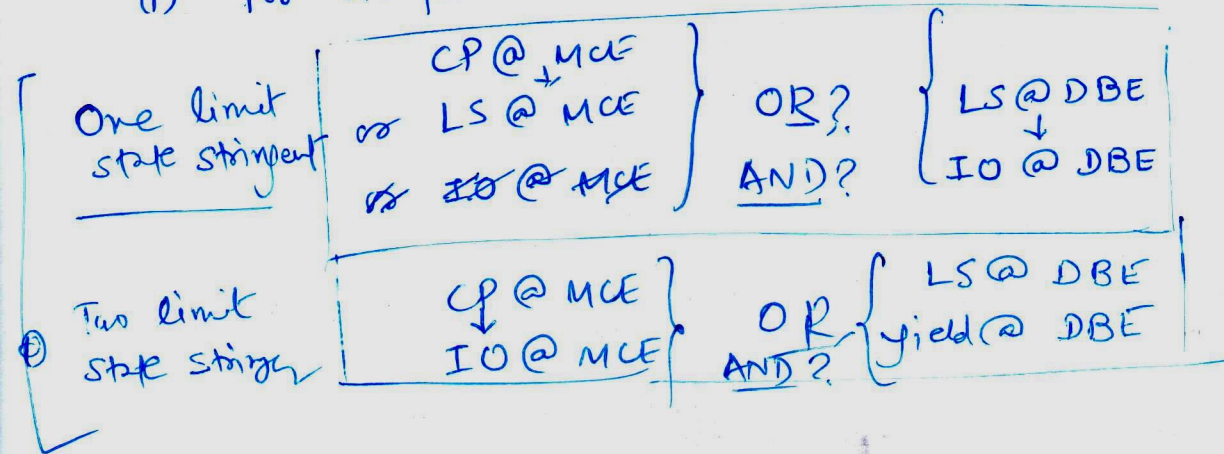


Two kinds of outputs (Point Estimate)

(i) For performance objective to be



For Important or Very Important bldgs.  
e.g. category II

→ Different approaches from  
ASCE 7-16

(ii) change in design for uniform risk, from uniform hazard.

RTGM & ratio of DBE to MCE base shear

(iii) From (i) we can establish  

$$\frac{R_{S@DBE}}{R_{S@MCE}}$$
 ratio and check if

(1/2) is a reasonable number

$\mu_{CP,MCE}$   
 $\mu_{CP,DBE}$   
 $\mu_{CP,MCE}$   
 $\mu_{CP,DBE}$

Hazard-based ratio

risk-based ratio

$$\frac{RTGM_{CP,DBE}}{RTGM_{CP,MCE}} = \frac{RTGM_{CP,DBE}}{RTGM_{CP,MCE}}$$

$$H_{Tr} \propto \frac{RTGM_{ds,Tr}}{RTGM_{ds,Tr}}$$

$$H_{2475} / H_{2475} = 1/2$$

$$\frac{RTGM_{CP,DBE}}{RTGM_{CP,MCE}} = \frac{RTGM_{CP,DBE}}{RTGM_{CP,MCE}}$$

$$\frac{RTGM_{CP,DBE}}{RTGM_{CP,MCE}} = \frac{RTGM_{CP,DBE}}{RTGM_{CP,MCE}}$$