

## Genetic Constraints

- ① There is another level of sophistication; spectral analysis of root response. (little energy at low frequencies).
- ② The most efficient way of creating ourselves of this is on a plant specific basis.
- ③ Steps is open to P.S analysis of the types.
- ④ not done it generally because:
  - not clear that it would matter to sublethal
  - seems to be very few plants in this category.
  - easier to do plant-specifically.

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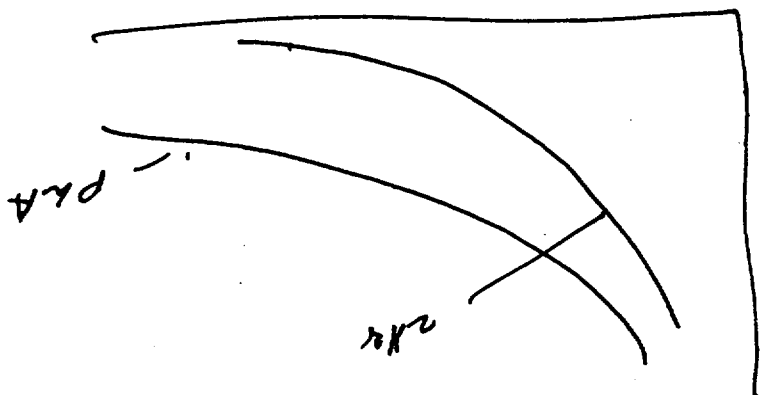
### Seismic Risk - Decommissioning

ACRS question on conservatism needs to be answered in context of impact on requirements and decisions. In other words, further refinements are only needed if they have a meaningful impact on decisions.

Current Seismic Analysis and Approach	Results	Impacts
1. Require plant walkdown and checklist to assure that there are no vulnerabilities	Results range from 1. $< 1E-7$	1. Are the requirements for EP, insurance, etc., are different for plant 1 than plant 101.
2. Performed conservative, generic evaluations.	.	2. If no, further refinements in calculations are not necessary.
3. Results show that except for two plants in Eastern US. Accident frequency $< 4.5 E-6$ .	.	3. If yes, refinements can be made.
4. Avoids plant specific analysis, focuses on efficient and cost-effective way to demonstrate "low" seismic risk	101. $< 4.5 E-6$	

What current approach means:

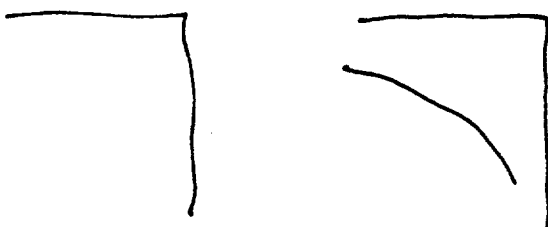
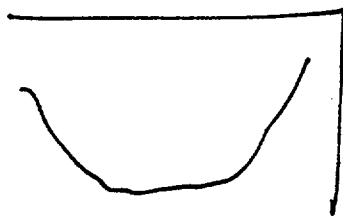
1. Show that plant risk is in range of mid  $E-6$  to qualify for decommissioning treatment.
2. Otherwise: Upgrade to reduce risk  
Wait till risk reduces



$$A = A_0 \sin \omega t$$

$$a = A_0 \omega^2 \sin \omega t$$

$$\frac{A}{a} = \frac{1}{\omega^2}$$



$C_A$  3.2  
 $C_B$  4.5