

## SEISMIC

NEI submitted checklist - August 18, 1999

7 checklist items

Independent review of staff draft report on seismic and NEI checklist

NEI checklist is an excellent start

Adequate checklist can be developed using mean LLNL93 hazard estimates to envelope seismic risk less than  $3E-6$  (0.5 PGA or 1.2 PSA) - detailed fragility review of 52 of 60 CEUS (central and eastern US) sites will not be necessary

Adequate checklist can be developed using mean EPRI89 hazard estimates to envelope seismic risk less than  $0.5E-6$  (0.5 PGA or 1.2 PSA) - detailed fragility review of 56 of 60 CEUS (central and eastern US) sites will not be necessary

Additional concerns for consideration

Additional review for above ground pools with walls not backed by soil backfill

Staff assessment

In progress - Goutam can give details Wednesday AM or in PM meeting.

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## CRITICALITY

Members of the public raised concern

Independent review of staff draft report:

Additional scenarios proposed:

Loss of cladding integrity: Fuel pellets (out of the rod) from more than 30 fuel rods would be needed to be arranged in an optimum configuration (spherical) for possible criticality - potential for this case is negligible

Melting of boron plates and canisters without fuel melt: If reflooded with unborated water - subcriticality can not be assured. Need to reflood with borated water.

Staff Actions:

Criticality calculations being performed on various scenarios/configurations

Qualitative review of probability of sequences leading to a configuration that could support