Conf Call - Bob Kennedy

TY Chen Sher Bodhee Me (1) 7/12/99
Mike Cheok Nilesh Chokshi

EPRI BWR 0.48g
" PWR 0.65g
} Bob's back calculation

Bob's approx: HCLPF x 1.5 = 10% prob of failure
find exceedance λ
divide by 2

Good over larger range

What EPRI showed
BWRs 1.6×10^{-6} avg
PWRs $.48 \times 10^{-6}$ avg 43 plants

0.9×10^{-6} avg reported

factor of 4 difference between EPRI + NRC using ~~LLNL~~ Sandia hazard curves.

Bob: Surrogates were probably conservative (rock would have been stronger at the two plants). Probably a VERY significant variation from plant to plant.
Would change risk #s by factor of 3.

The #s for some individual sites > factor 10 higher than avg.

If did good job in IPEEE they should have info need for fragilities in a few man weeks of effort. If did a poor job, (demand input to fuel pool).

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(2) 7/12/99 B. Kennedy

~~Slow~~ Do analysis of 10 spent fuel pools to see if can "drop" as a vulnerability.

ACI code requires % steel in net concrete volume.

Bob expects most plants (on plant-specific basis) will have SFP failure risk < 10^{-6}/yr. Some will need to have HCLPFs > 0.8g to get below 10^{-6}/yr.

NUREG/CR-5176 } Bob needs
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