

## **August 23, 2000 NRC/NEI Meeting**

**Purpose:** To review and discuss the December 1999 and April 2000 submittals with respect to planned risk based regulations for decommissioning plants. In particular, NEI proposes to discuss both deterministic and probabilistic information that when combined in a reasonable manner should lead to the conclusion that Spent Fuel Pools (SFPs) that satisfy the seismic checklist present a negligible risk to the public and the risk based regulation recommendation should be revised to reflect this conclusion.

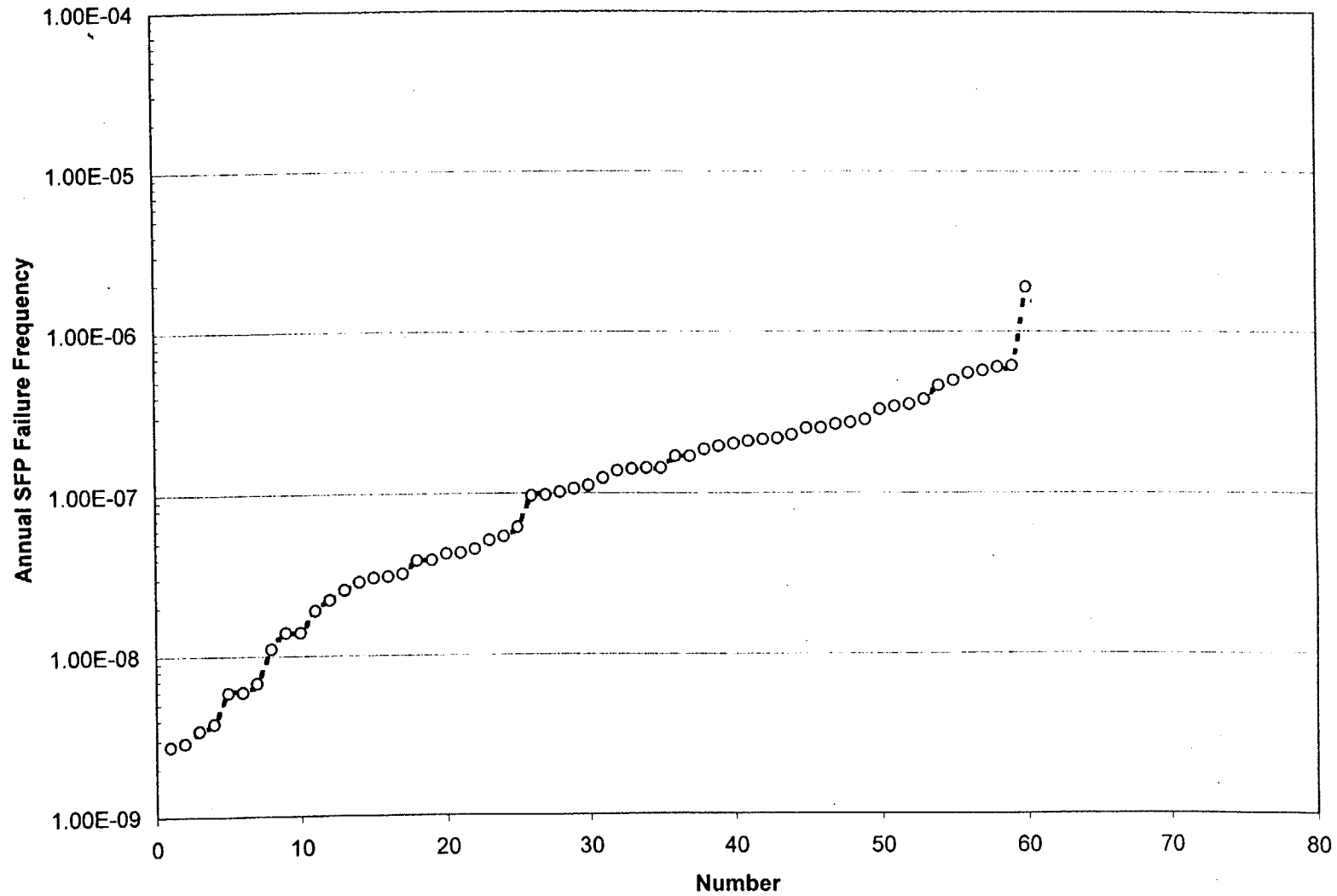
**Additional Information:** Figures will be presented which contain estimates of SFP failure frequency based upon the methodology proposed by Kennedy in Appendix 5b of the Draft Report. Figure 4 in the December 1999 submittal is updated in this presentation.

- **Deterministic Information Supporting Low Risk to SFPs from Earthquakes**
- **Probabilistic Information Supporting Low Risk to SFPs from Earthquakes**
- **Decision Making Based on Deterministic and Probabilistic Information**

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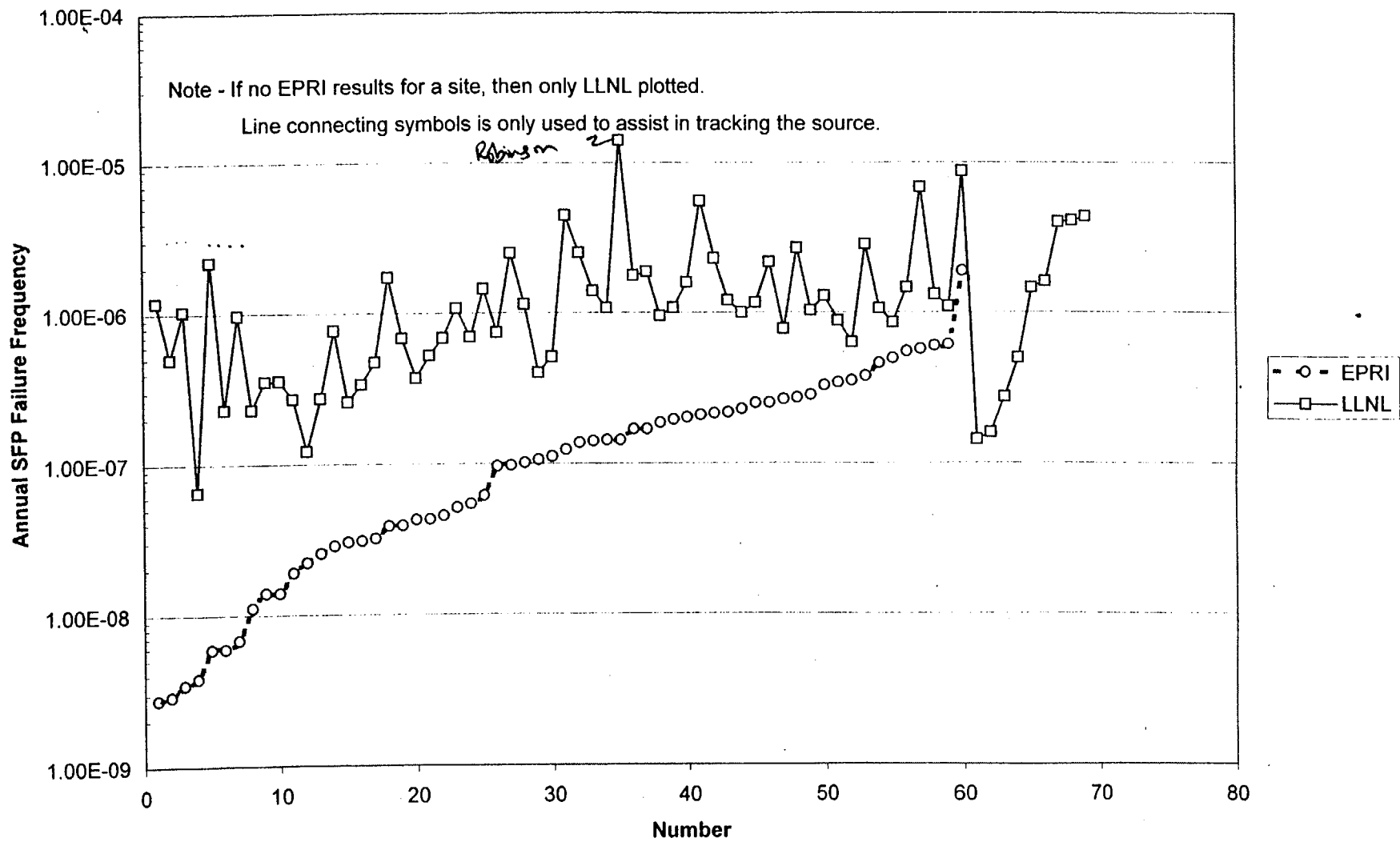
# SFP Failure Frequency Based on EPRI

EPRI sorted from lowest to highest risk site



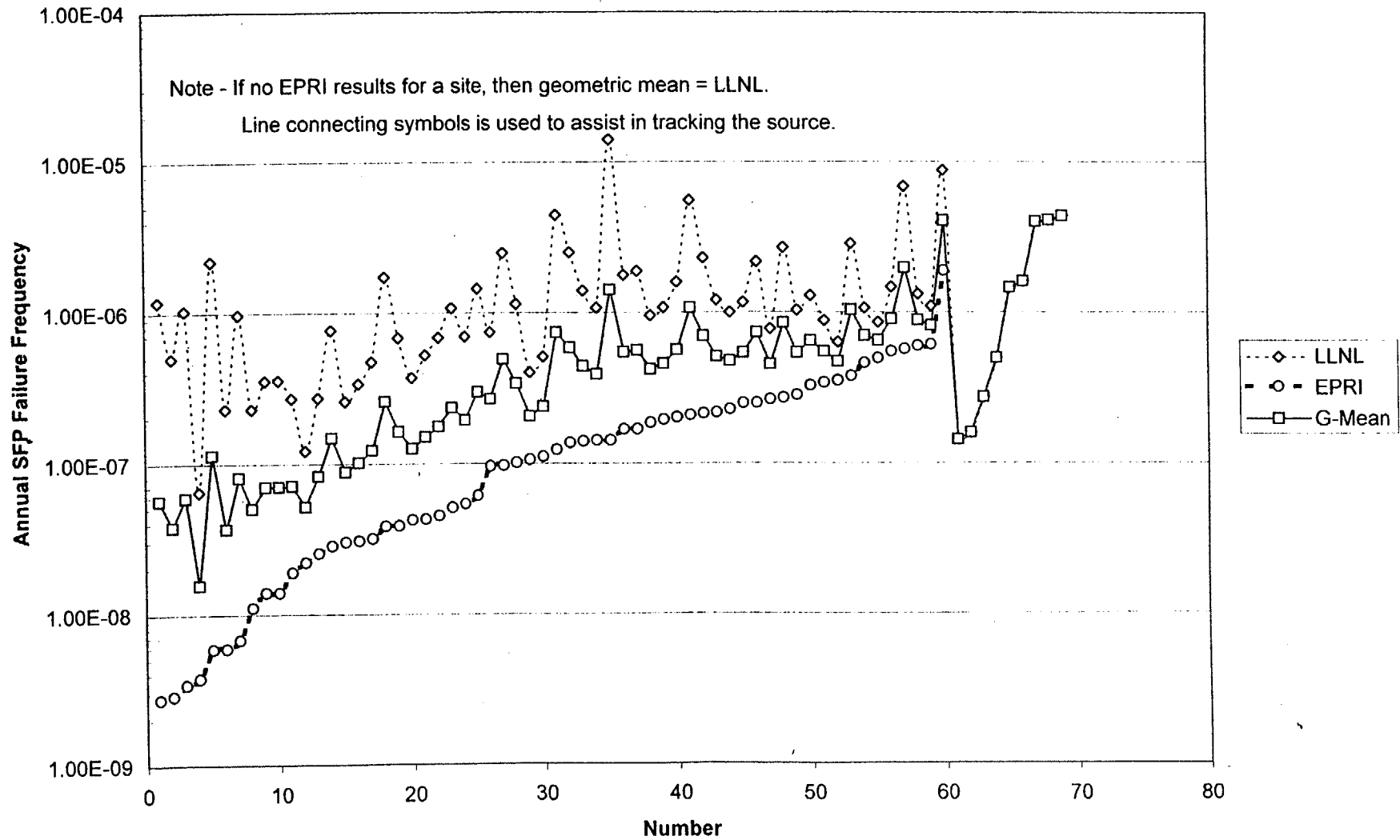
## Comparison - LLNL and EPRI

EPRI sorted from lowest to highest risk site



## Comparison - LLNL/EPRI/GEOMETRIC MEAN

EPRI sorted from lowest to highest risk site



### Geometric Mean (LLNL & EPRI)

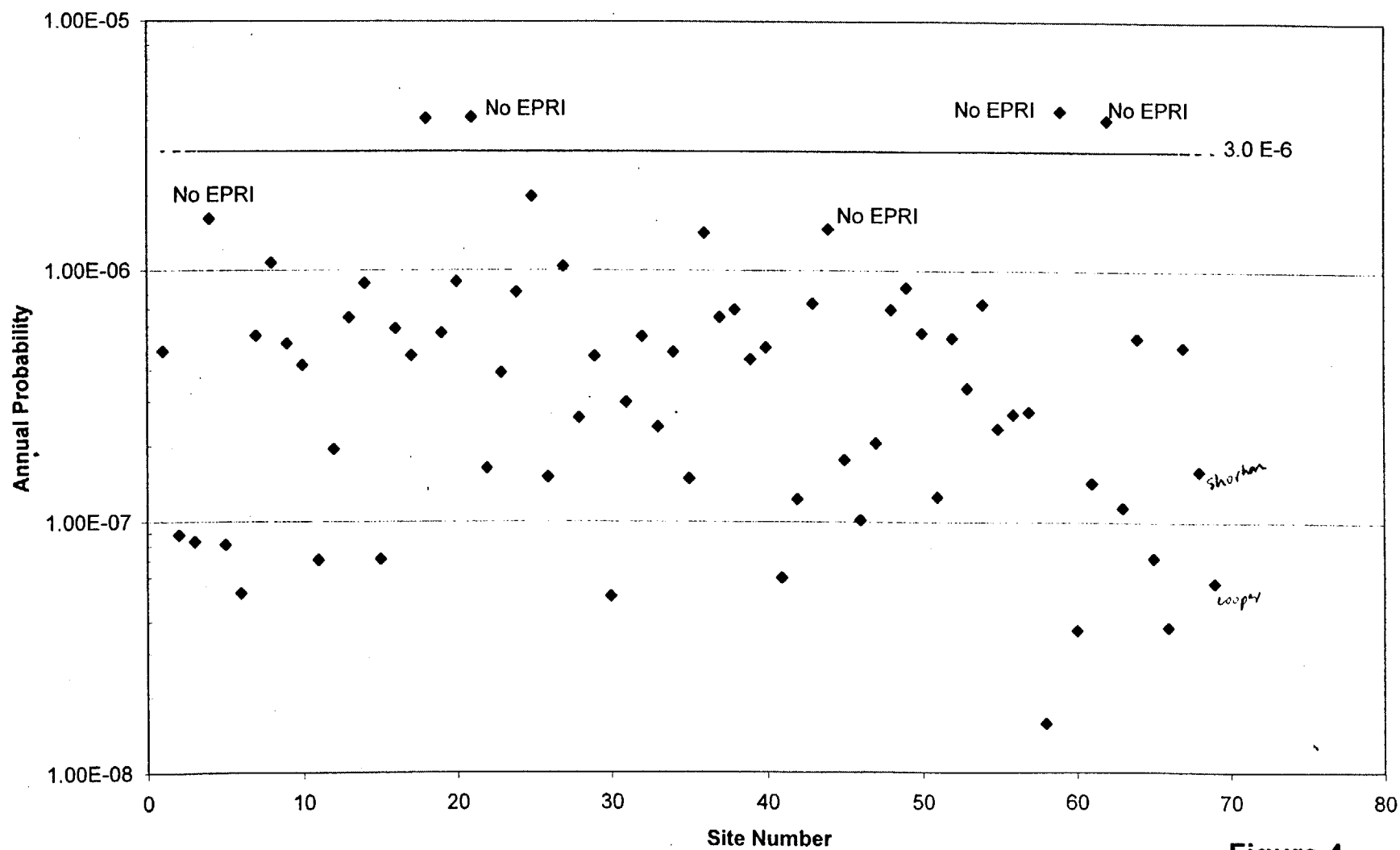
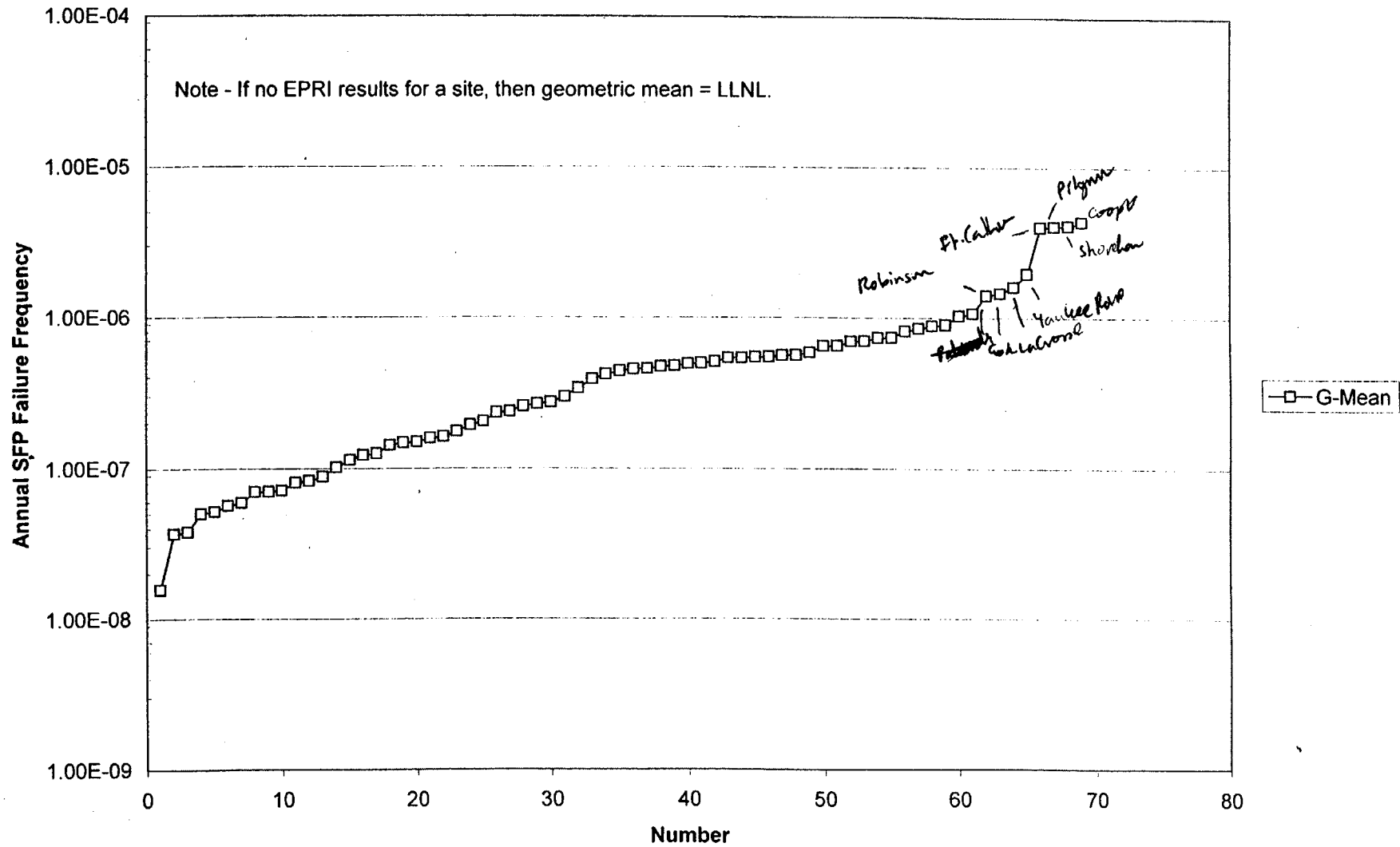


Figure 4

## SFP Failure Frequency Based on Geometric Mean of LLNL&EPRI

Geometric Mean sorted from lowest to highest risk site



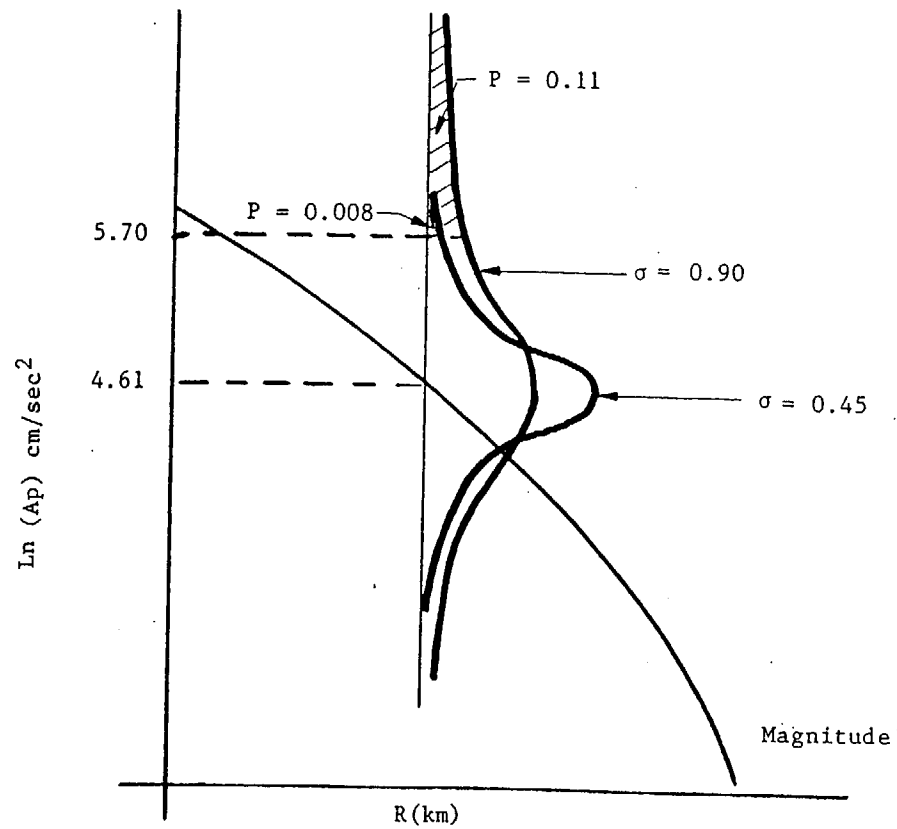


Figure 5-20. Illustration of the Effect of Changes in the Attenuation Model Error Term

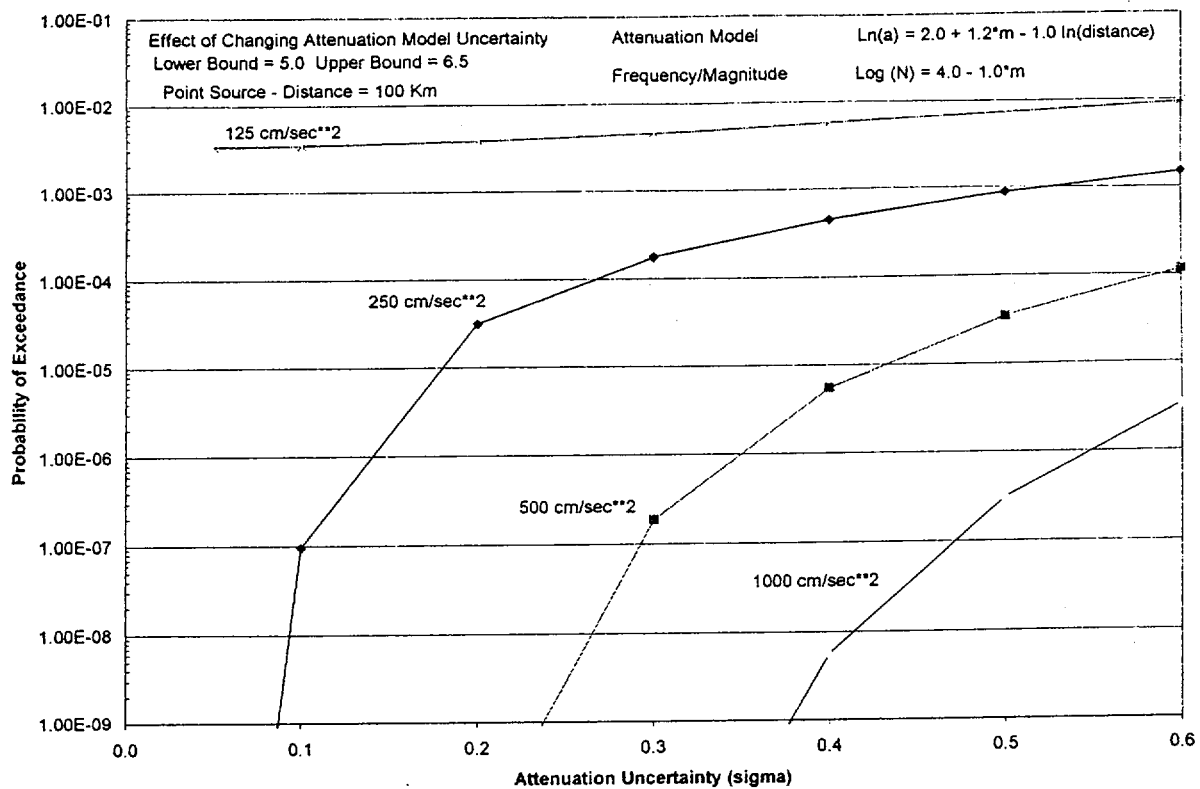
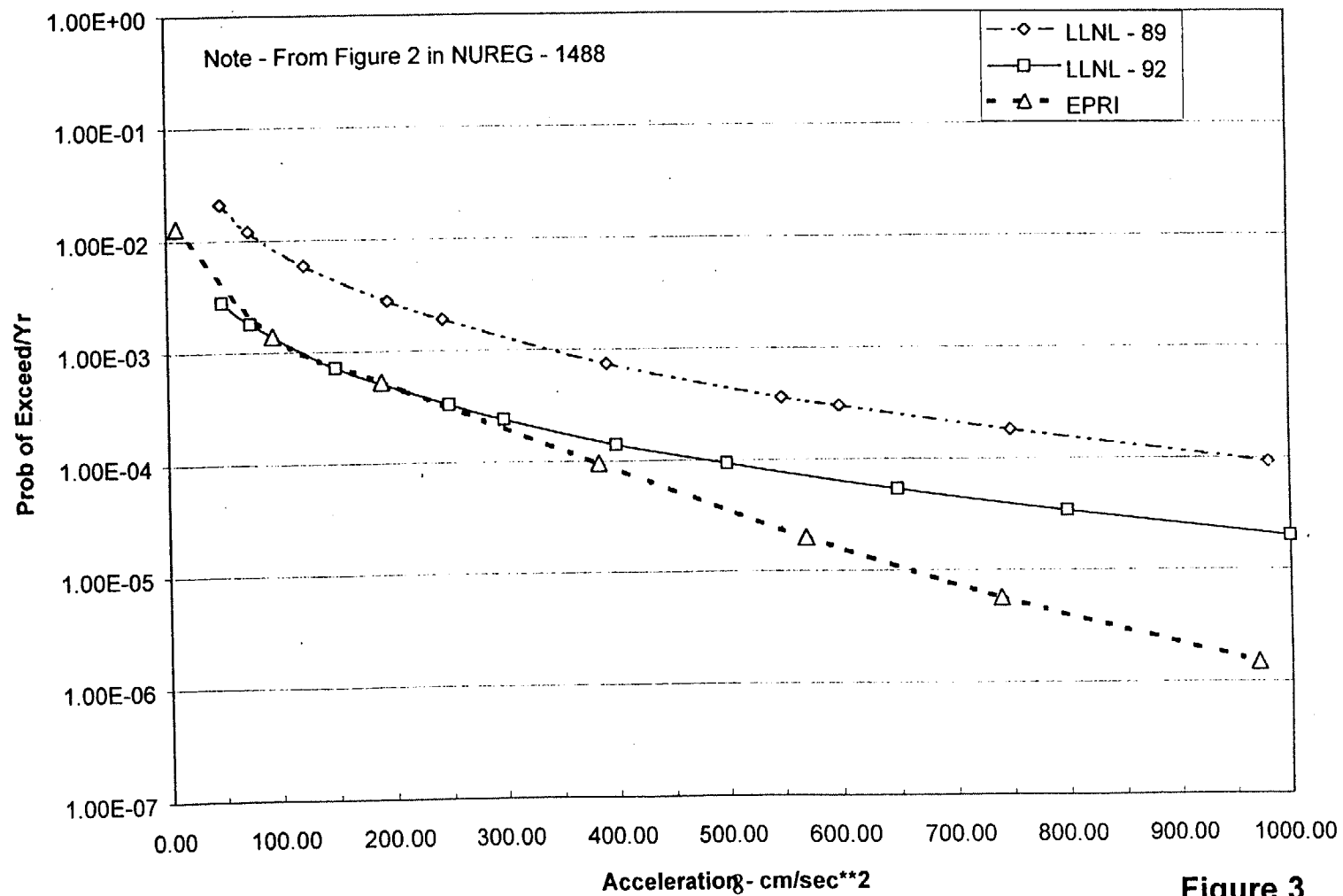


Figure 2 Effect of Attenuation Random Uncertainty on Probability of Exceedance from a Point Source

**Comparison of 1989 LLNL, 1992 LLNL and EPRI Estimates of Probability of Exceeding Peak Ground Acceleration per Year versus Acceleration - Pilgrim site**



**Figure 3**