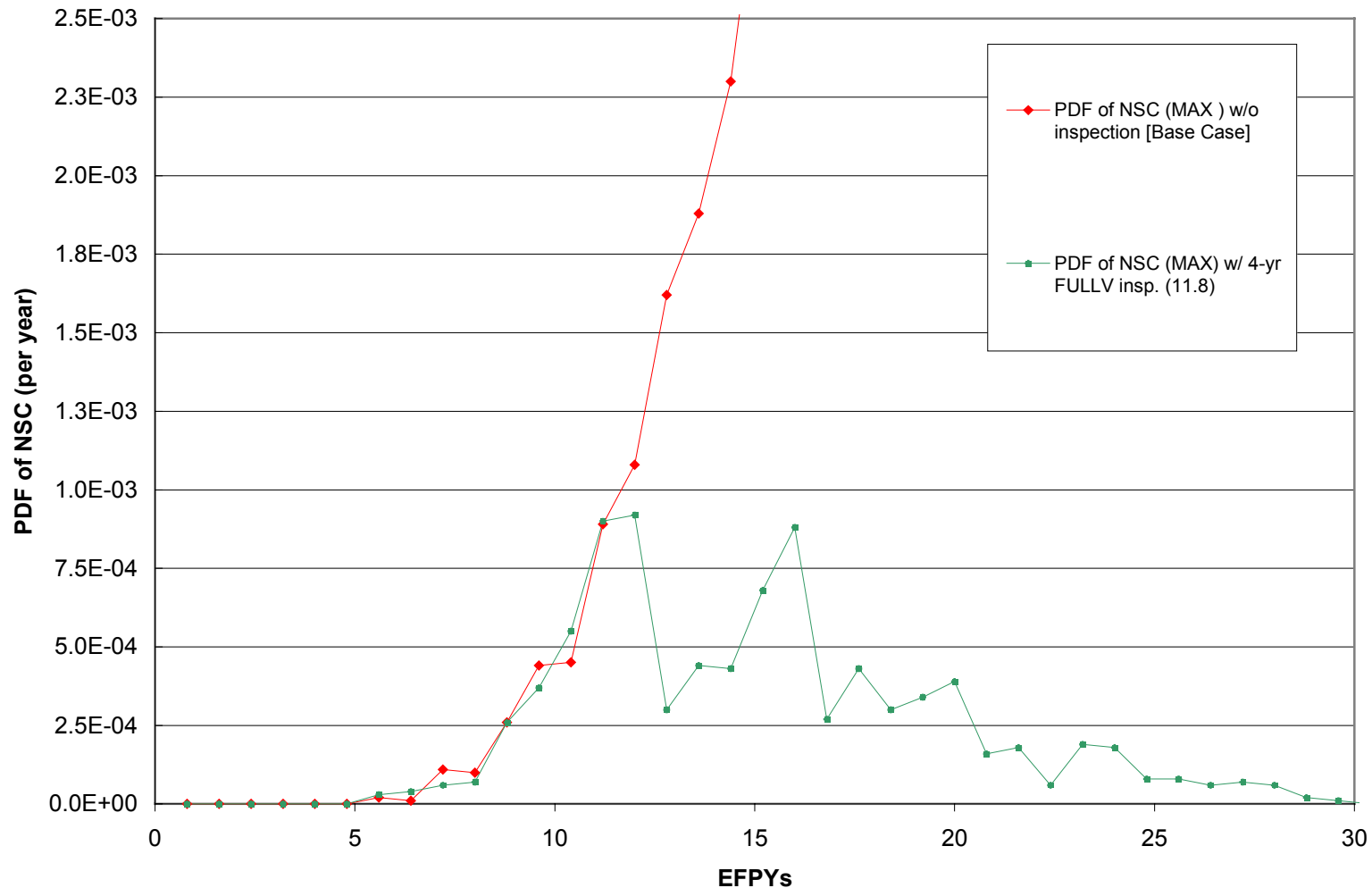


Sensitivity Studies

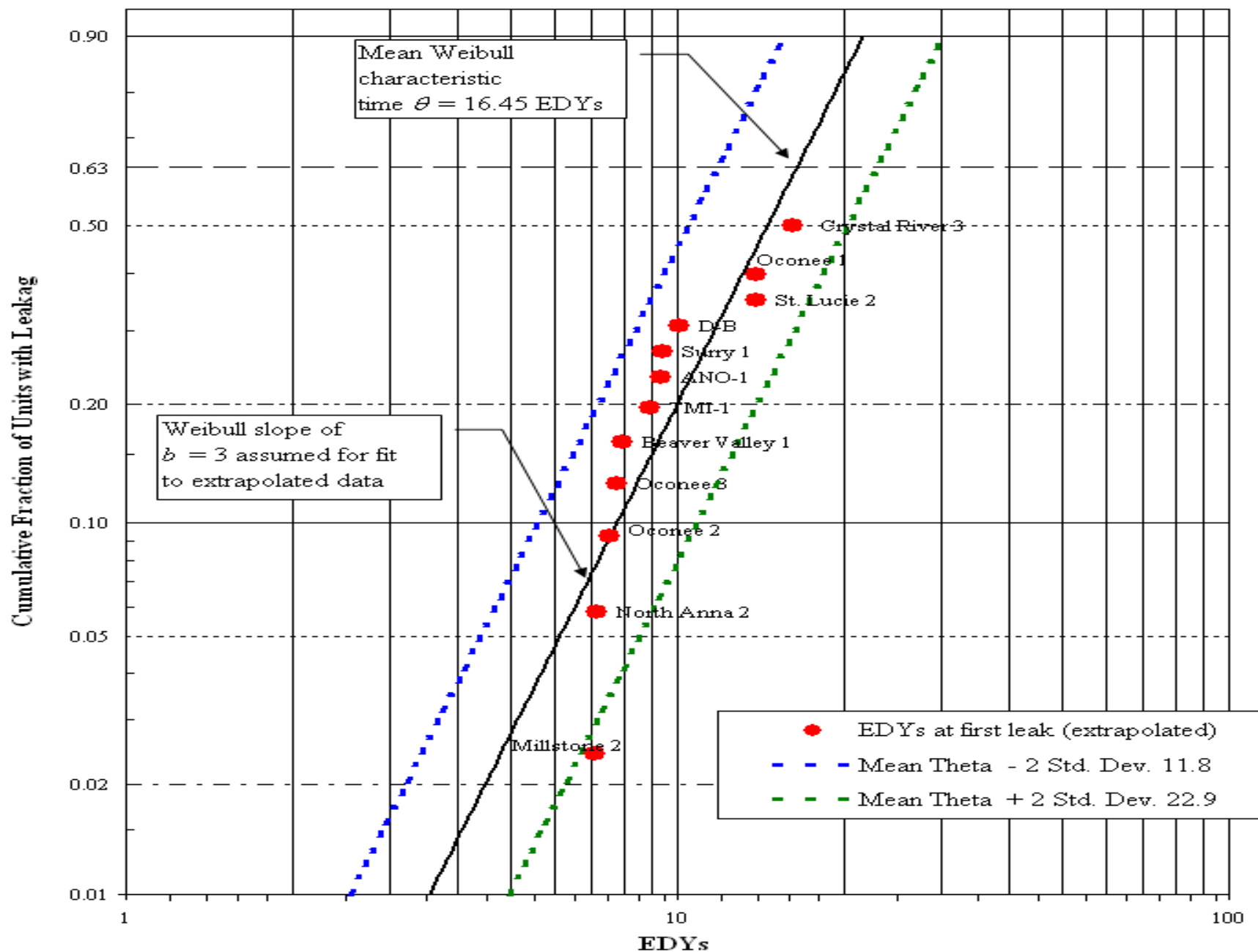
- **Effect of Worst Case θ from Weibull**
- **Effect of Weibull Slope b**
- **Effect of Initiation-Growth Correlation Factor (Ultimate Sensitivity Case)**
- **Head Temperature Cases**
- **Plant-Specific Application Concept**

Base Case for Sensitivity Studies

Base Case Net Section Collapse Probabilities at 600°F

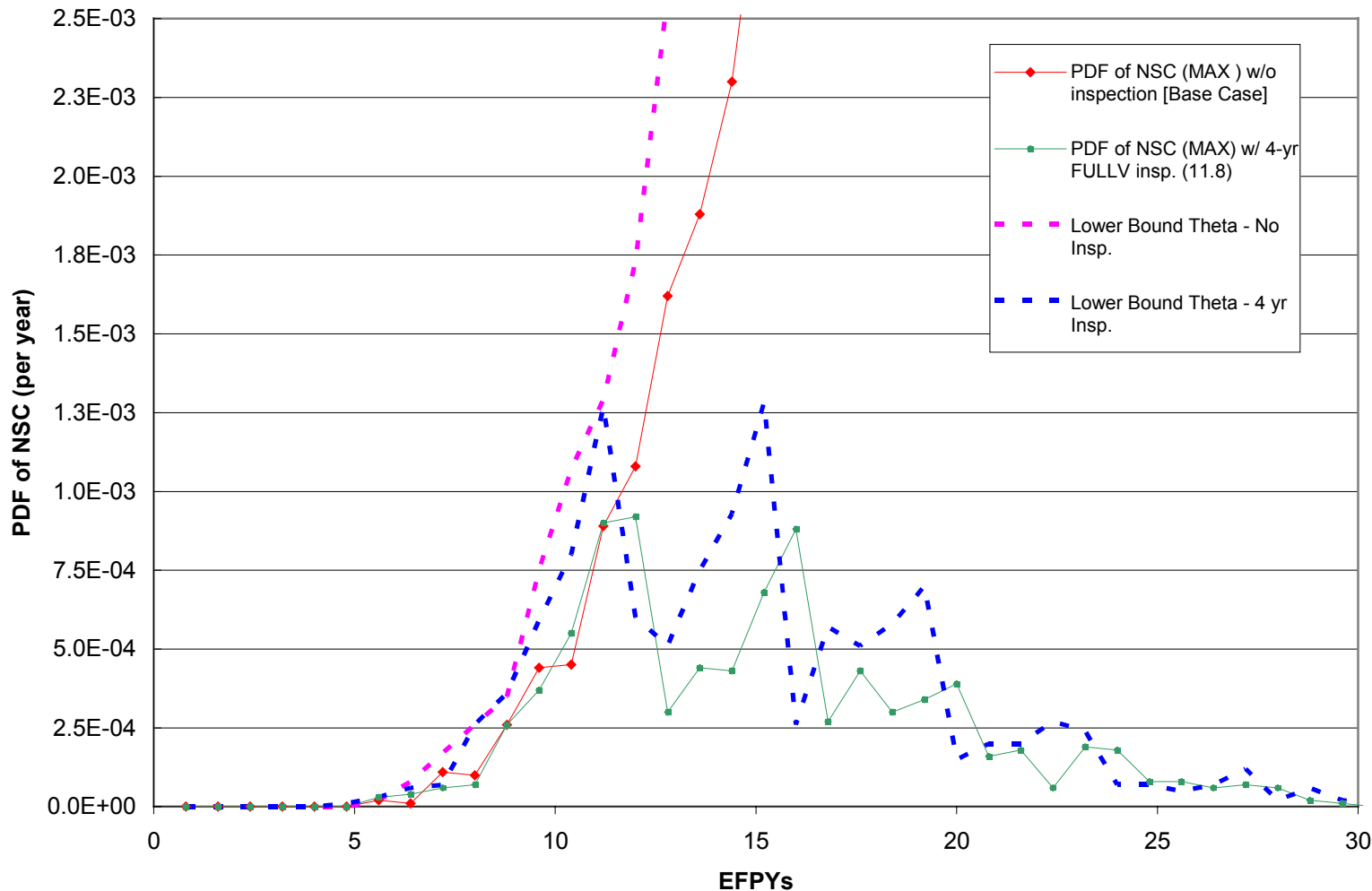


All inspection data adjusted to 600 °F ($Q = 50$ kcal/mole)



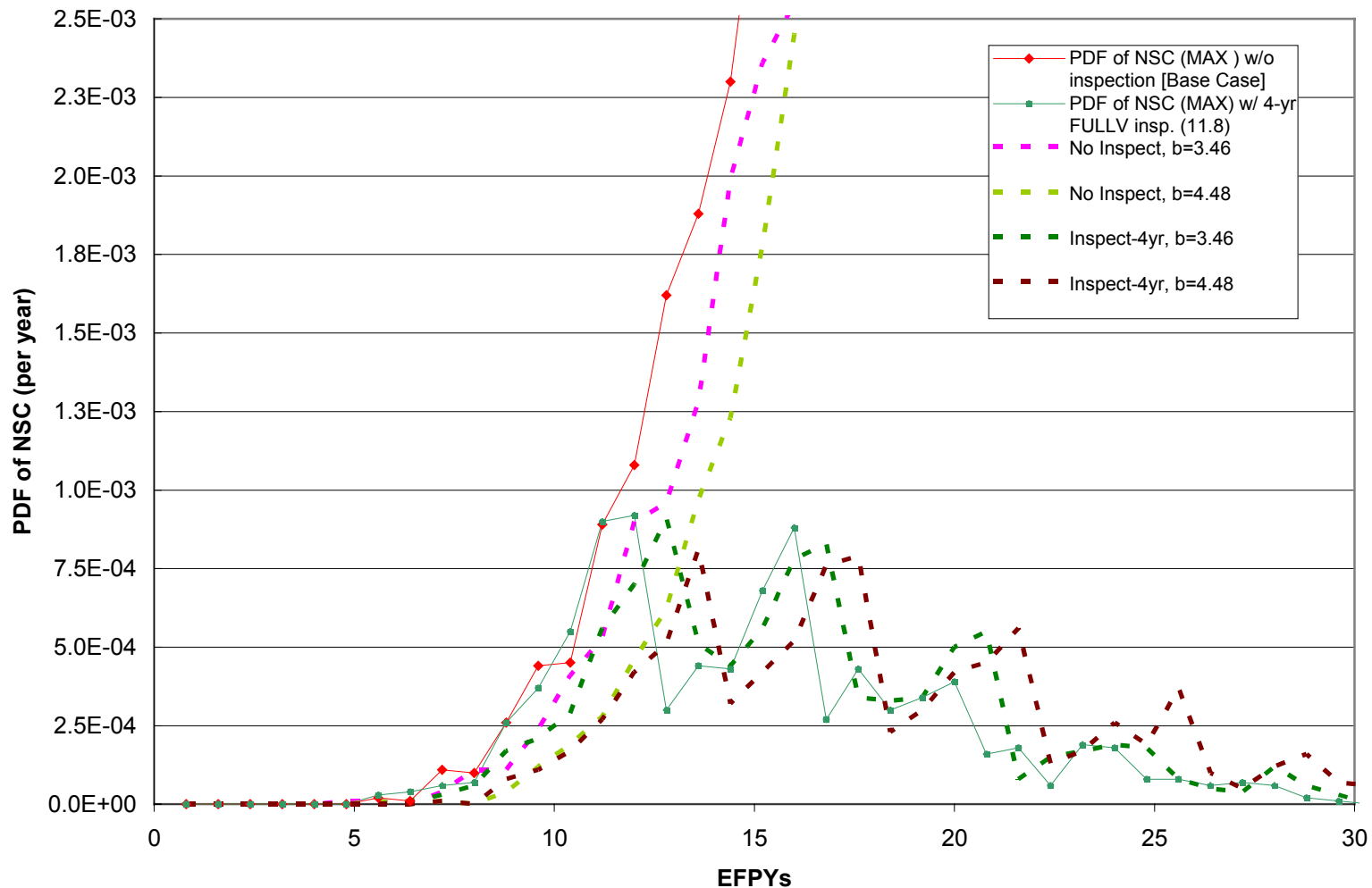
Sensitivity to Weibull Characteristic Time to Failure (θ)

Comparison of Net Section Collapse Probabilities at 600°F
Base Case vs Lower Bound Theta = 11.8 EDYs



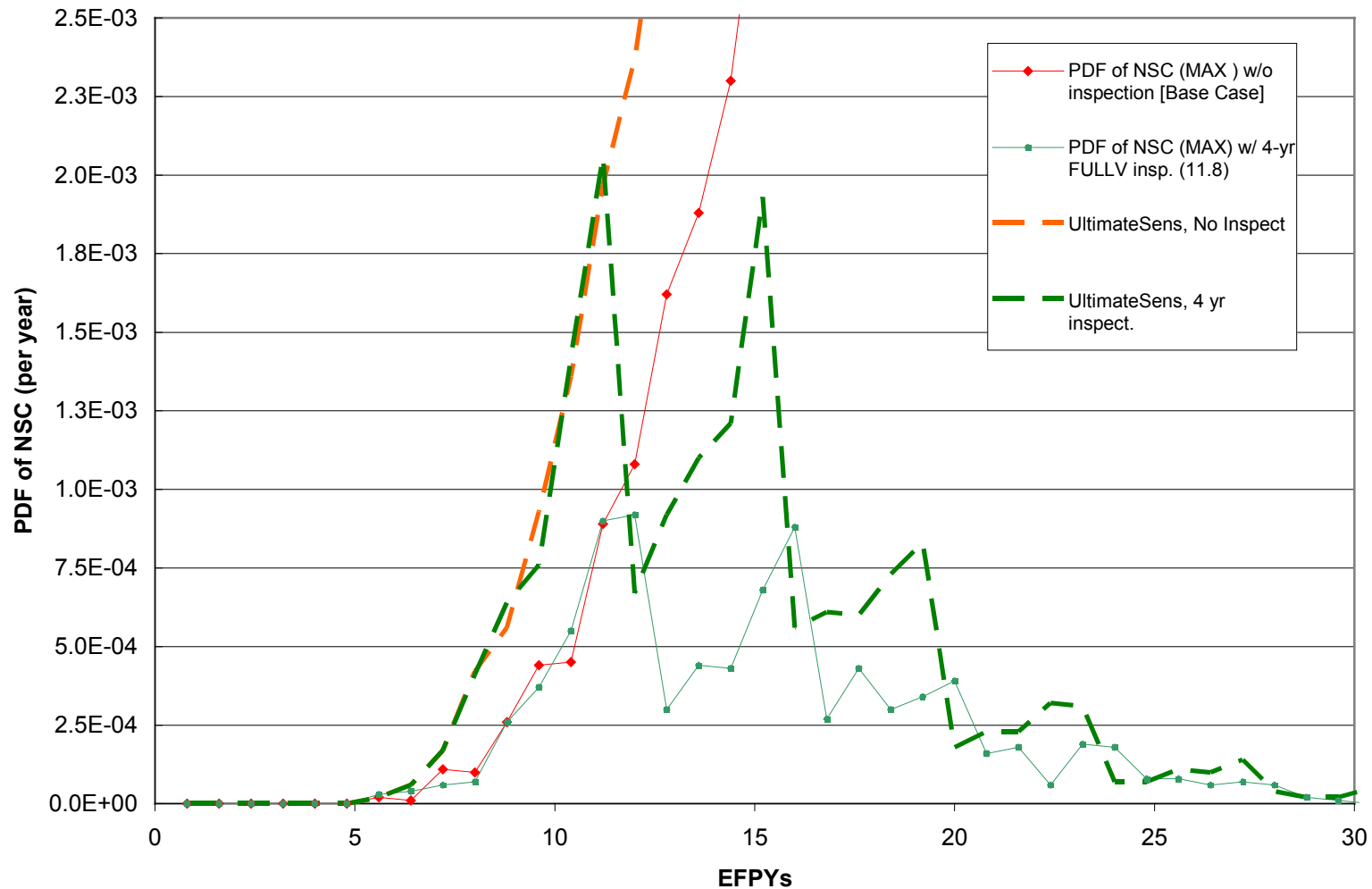
Sensitivity to Weibull Slope (b)

Comparison of Net Section Collapse Probabilities at 600°F
Base case b=3 vs. b=3.46 and b=4.48



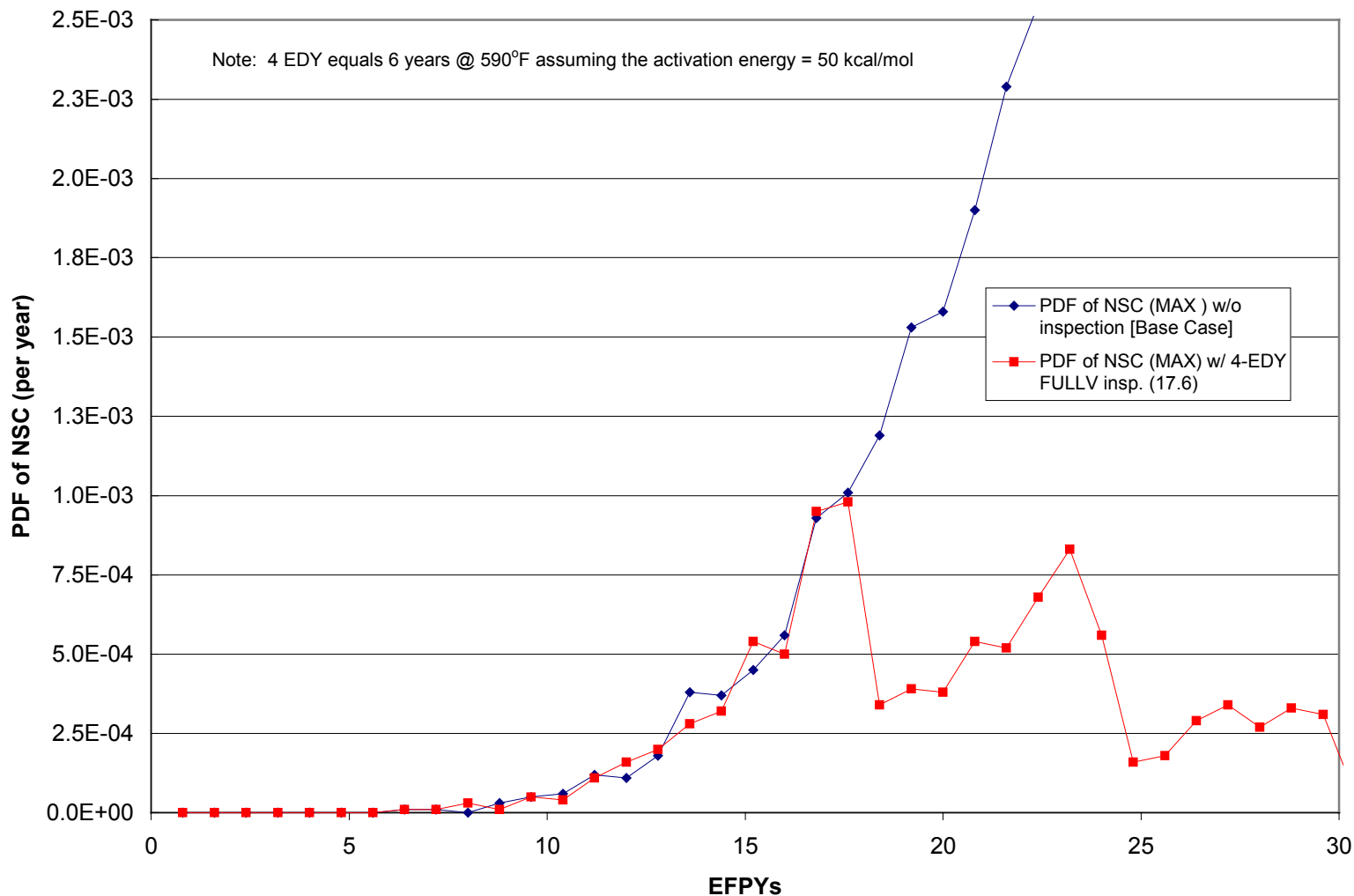
Ultimate Sensitivity Case

Comparison of Net Section Collapse Probabilities at 600°F
Base Case vs Ultimate Sensitivity Case
(Theta = 11.8 EDYs & Correl. = 1)



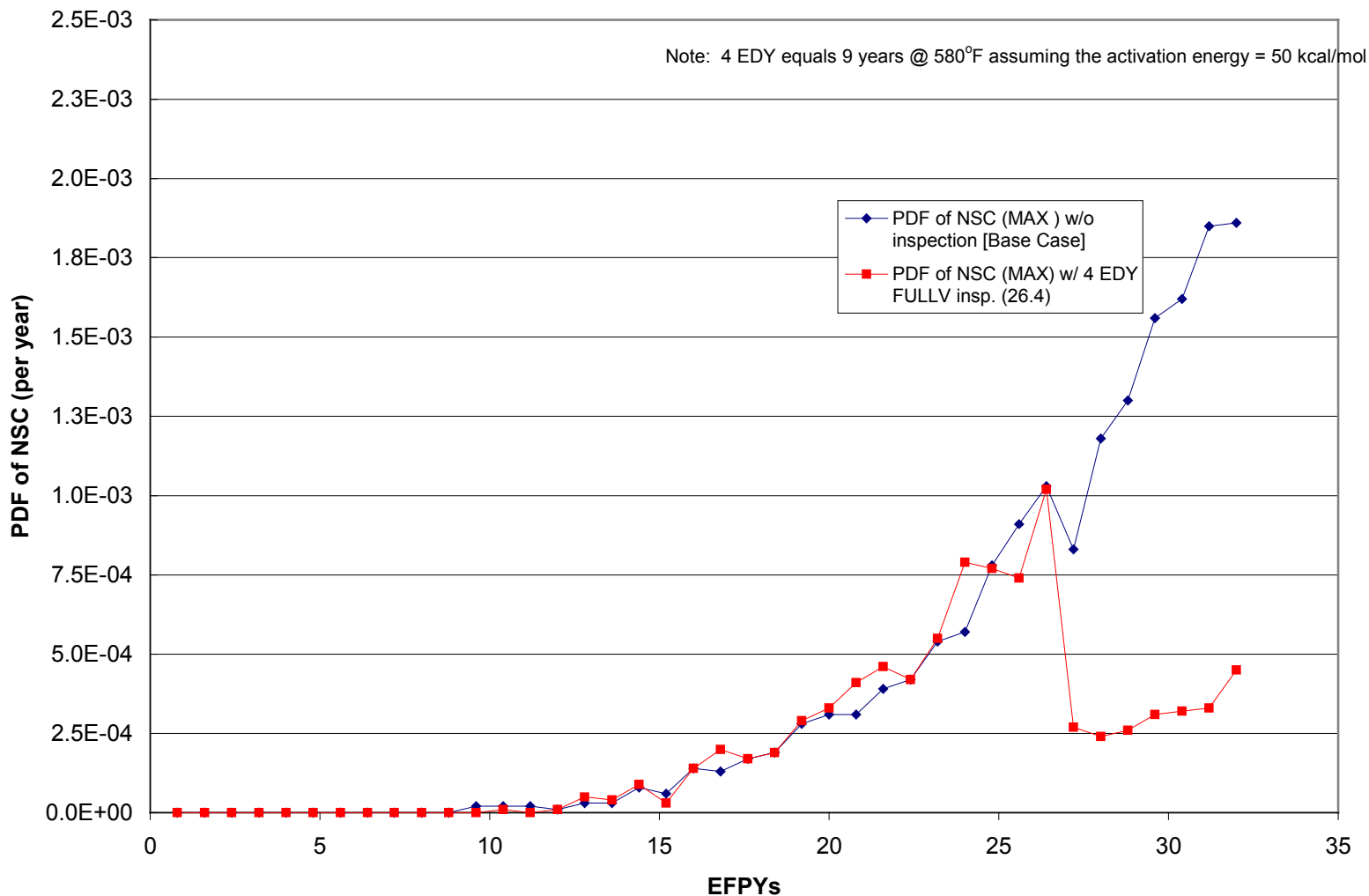
590°F Inspection Runs

Comparison of Net Section Collapse Probabilities at 590°F



580°F Inspection Runs

Comparison of Net Section Collapse Probabilities at 580°F



All inspection data adjusted to 600 °F (Q = 50 kcal/mole)

Cumulative Fraction of Cracked CRDM Nozzle

