

## **Practical Risk Management Methods**

### Richard Jones - Senior Vice President: Research & Engineering



**HSB Engineering Insurance** 

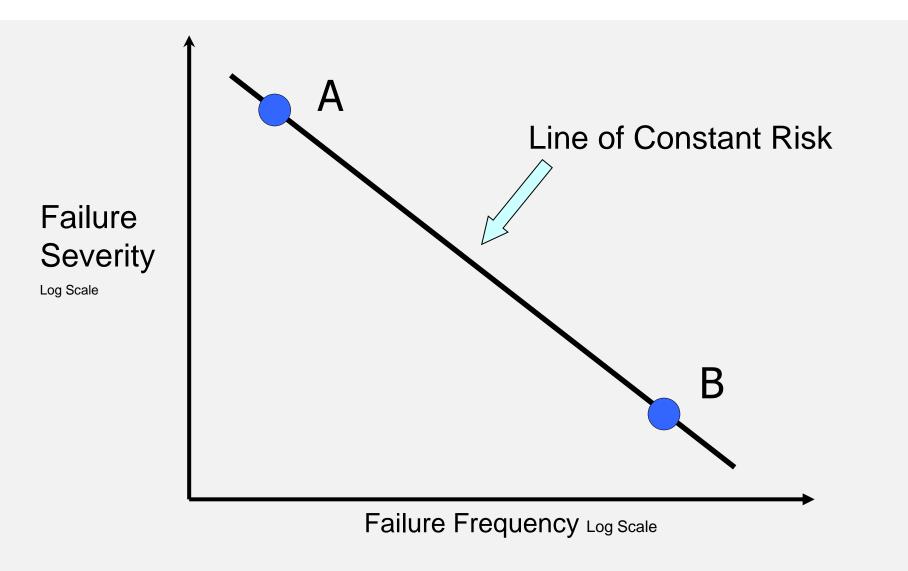


**Risk Solutions** 

### Geometric Interpretation of Risk



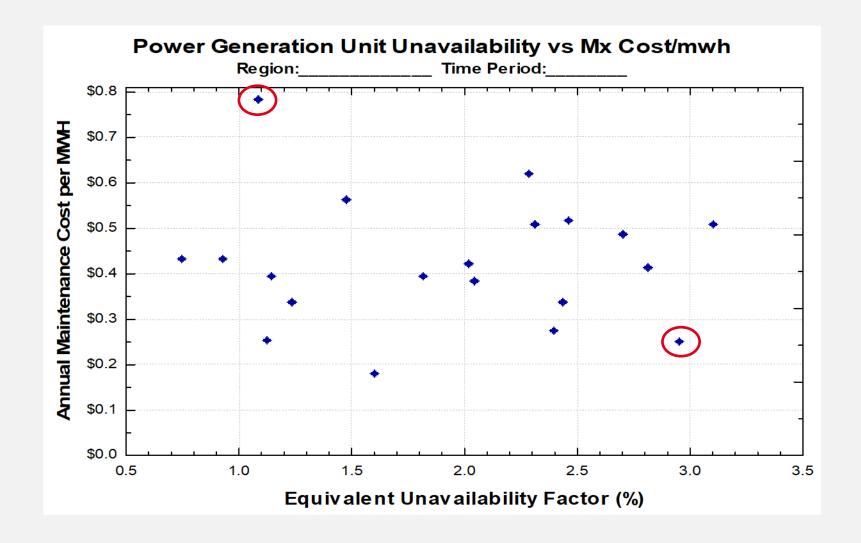




## Frequency, Severity, & Risk



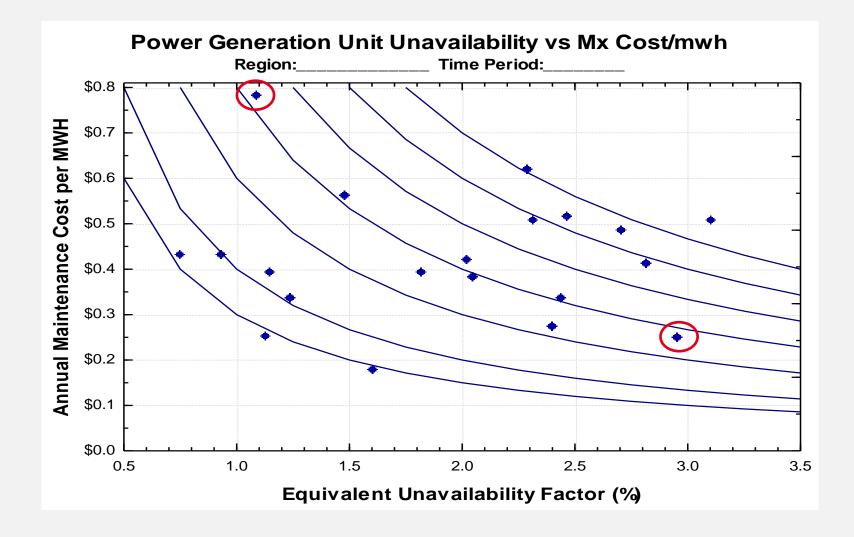




### Frequency, Severity, & Risk







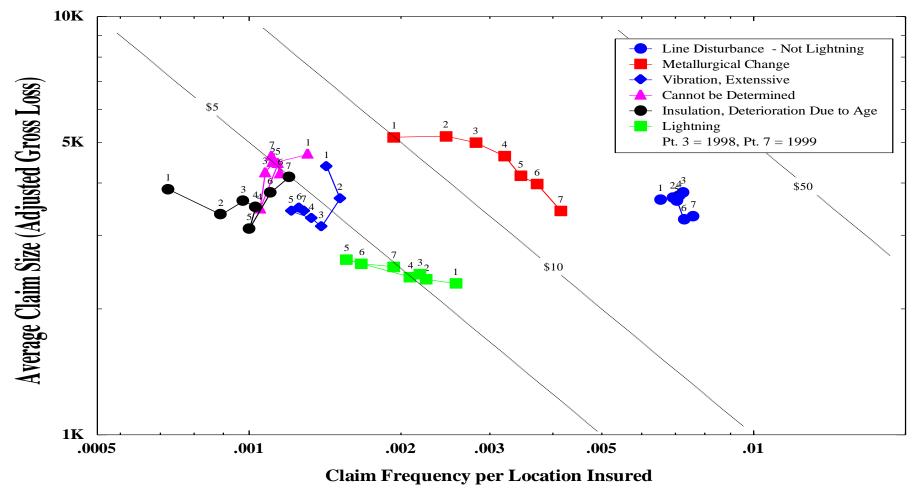




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### **Retail Sales & Service: Commercial Excluding ReSource**

Developed as of January 7, 2000







*Risky Business!* Directions: (This exercise must be done on your own.) Read through the following list. Number the entries in the list from 1 to 30. Number 1 will indicate the item in the list you feel results in the most U.S. deaths in a given year. Number 30 is the list item you feel results in the fewest deaths per year in the U.S.

AIDS	murder
boating	nuclear power
choking	power mowers
drowning	railroads
getting hit by a falling object	riding a bicycle
firearms accidents	riding in a motor vehicle
flying in a small plane	setting off fireworks
flying on a commercial airliner	slipping or tripping
getting burned in a fire	smoking
lightning	snow skiing
getting overheated	suicide
getting too cold	tornadoes
hunting	using electricity
hurricanes	using stairs
accidental poisoning	using your bathtub

<u>Actual</u>

3

motor vehicles	2	2	2	1
murder	5	3	4	4
suicide	4	4	7	5
smoking	1	5	1	2
setting off fireworks	29	26	28	28
snow skiing	26	27	26	27
slipping or tripping	19	28	12	17
using your bathtub	20	29	16	20
using stairs	13	30	11	22

<u>Jr. High</u>

## "Measuring" Risk Perception - Survey Results

AIDS

<u>Activity</u>



Insurers

3



<u>Police</u>

3

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**Risk Management Scenario** 





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## Plan A

50% chance of saving 10,000 people

50% chance of killing 10,000 people

# Plan B

100% chance of saving 5,000 people

100% chance of killing 5,000 people

## **Risk Management Scenario**











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# Risk Management => ethics

- I. Rule Based
- II. Consequence
- III. Aristotelian (Virtue)