

THAI WASTE MANAGEMENT WORKSHOP 2

PERFORMANCE ASSESSMENT MODELLING

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SYVAC

SYSTEMS VARIABILITY
ANALYSIS CODE

A
PROBABILISTIC
ASSESSMENT
TOOL

RADIOLOGICAL RISK

The sum over all significant scenarios of

(probability of the scenario)

X

(the magnitude of the resultant dose)

X

(probability of a health effect per unit dose)

**The last factor is given
as 0.02 per sievert**

GUIDELINE

**PROBABILITIES OF
EXPOSURE SCENARIOS**

Relative frequency of occurrence

Best estimates and engineering judgements

DEALING WITH UNCERTAINTY

- **Multiple Barriers / Redundancy**
- **Conservative Regulations**
- **Conservative Assumptions**
- **Probabilistic Analysis**