

Look-Up Table Approach for Multi-Unit Level 3 PSA

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New Approach: Correspond to Strategy 3)

- Development of the Integrated Risk Assessment Technology for Multiple Units, KAERI/RR-4225/2016, 2017.

| Index No. | SUM CDF % | | | | | | | | |
|-----------|-----------|--|--|--|--|--|--|--|--|
| 10,000 | 100.0% | | | | | | | | |

| Index No. | CDF % | # of CD Units | Top1 | Top2 | Top3 | Top4 | Top5 | Top6 | Top7 |
|-----------|-------|---------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| 1 | 15.0% | 1 | #GIE-TS-L-5-P34-S12 | | | | | | |
| 2 | 12.9% | 1 | #GIE-TS-L-5-P34-S8 | | | | | | |
| 3 | 12.1% | 1 | #GIE-TS-L-5-P34-S2 | | | | | | |
| 4 | 10.5% | 1 | #GIE-TS-L-5-P34-S14 | | | | | | |
| 5 | 9.5% | 1 | #GIE-TS-L-5-P34-S10 | | | | | | |
| 6 | 6.6% | 1 | #GIE-TS-L-3-P19-S2 | | | | | | |
| 7 | 1.3% | 1 | #GIE-TS-L-5-P34-S6 | | | | | | |
| 8 | 0.9% | 1 | #GIE-TS-L-5-P34-S4 | | | | | | |
| 9 | 0.8% | 1 | #GIE-TS-L-3-P19-S10 | | | | | | |
| 10 | 0.7% | 1 | #GIE-TS-L-3-P19-S14 | | | | | | |
| 11 | 0.7% | 1 | #GIE-TS-L-5-P34-S15 | | | | | | |
| 12 | 0.6% | 1 | #GIE-TS-L-5-P34-S21 | | | | | | |
| 13 | 0.4% | 1 | #GIE-TS-L-5-P19-S15 | | | | | | |
| 14 | 0.3% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | | |
| 15 | 0.2% | 1 | #GIE-TS-L-3-P19-S8 | | | | | | |
| 16 | 0.1% | 1 | #GIE-TS-L-3-P19-S12 | | | | | | |
| 17 | 0.1% | 1 | #GIE-TS-L-5-P34-S16 | | | | | | |
| 18 | 0.1% | 1 | #GIE-TS-H-11-P34-S12 | | | | | | |
| 19 | 0.1% | 6 | #GIE-TS-H-02-P32-S2 | #GIE-TS-H-02-P32-S2 | #GIE-TS-H-05-P32-S2 | #GIE-TS-H-05-P32-S2 | #GIE-TS-H-05-P32-S2 | #GIE-TS-H-05-P32-S2 | |
| 20 | 0.1% | 1 | #GIE-TS-L-3-P19-S16 | | | | | | |
| 21 | 0.1% | 1 | #GIE-TS-H-11-P34-S8 | | | | | | |
| 22 | 0.1% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 23 | 0.1% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 24 | 0.1% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 25 | 0.1% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 26 | 0.1% | 1 | #GIE-TS-H-11-P34-S2 | | | | | | |
| 27 | 0.1% | 2 | #GIE-TS-L-5-P34-S12 | #GIE-TS-L-5-P34-S12 | | | | | |
| 28 | 0.1% | 1 | #GIE-TS-H-11-P34-S14 | | | | | | |
| 29 | 0.0% | 2 | #GIE-TS-L-5-P34-S8 | #GIE-TS-L-5-P34-S12 | | | | | |
| 30 | 0.0% | 2 | #GIE-TS-L-5-P34-S12 | #GIE-TS-L-5-P34-S8 | | | | | |
| 31 | 0.0% | 1 | #GIE-TS-H-11-P34-S10 | | | | | | |
| 32 | 0.0% | 2 | #GIE-TS-L-5-P34-S2 | #GIE-TS-L-5-P34-S12 | | | | | |
| 33 | 0.0% | 2 | #GIE-TS-L-5-P34-S12 | #GIE-TS-L-5-P34-S2 | | | | | |
| 34 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 35 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 36 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 37 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 38 | 0.0% | 2 | #GIE-TS-L-5-P34-S8 | #GIE-TS-L-5-P34-S8 | | | | | |
| 39 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 40 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 41 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 42 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | |
| 43 | 0.0% | 2 | #GIE-TS-L-5-P34-S12 | #GIE-TS-L-5-P34-S14 | | | | | |
| 44 | 0.0% | 2 | #GIE-TS-L-5-P34-S14 | #GIE-TS-L-5-P34-S12 | | | | | |
| 45 | 0.0% | 2 | #GIE-TS-L-5-P34-S2 | #GIE-TS-L-5-P34-S8 | | | | | |
| 46 | 0.0% | 2 | #GIE-TS-L-5-P34-S8 | #GIE-TS-L-5-P34-S2 | | | | | |
| 47 | 0.0% | 2 | #GIE-TS-L-5-P34-S2 | #GIE-TS-L-5-P34-S2 | | | | | |
| 48 | 0.0% | 2 | #GIE-TS-L-5-P34-S10 | #GIE-TS-L-5-P34-S12 | | | | | |
| 49 | 0.0% | 2 | #GIE-TS-L-5-P34-S12 | #GIE-TS-L-5-P34-S10 | | | | | |
| 50 | 0.0% | 2 | #GIE-TS-L-5-P34-S8 | #GIE-TS-L-5-P34-S14 | | | | | |
| 51 | 0.0% | 2 | #GIE-TS-L-5-P34-S14 | #GIE-TS-L-5-P34-S8 | | | | | |
| 52 | 0.0% | 1 | #GIE-TS-H-09-P19-S2 | | | | | | |
| 53 | 0.0% | 1 | #GIE-TS-L-3-P19-S6 | | | | | | |
| 54 | 0.0% | 2 | #GIE-TS-L-5-P34-S2 | #GIE-TS-L-5-P34-S14 | | | | | |
| 55 | 0.0% | 2 | #GIE-TS-L-5-P34-S14 | #GIE-TS-L-5-P34-S2 | | | | | |
| 56 | 0.0% | 4 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | #GIE-TS-H-07-P32-S2 | | | |

Mapping between
Frequency and
Consequence

Consequence Table
Established with a
Practical Amount of Effort

Frequency Estimated
from Level 1&2 PSA

Site Risk of an Initiating
Event Can Be Estimated
by Total Sum of the Risk
of Each Scenarios

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