

2019/07/09 01:44:24

Title Project : Delocalisation industrielle

Created by : trhgtg thtrht

Type : Correction

Departement : D. Indus

Probability Scale

| Relative concentration of risk | | Probability of occurrence |
|--------------------------------|------|---------------------------|
| 0.0 | 0.15 | 0.1 |
| 0.16 | 0.25 | 0.3 |
| 0.26 | 0.5 | 0.5 |
| 0.56 | 0.75 | 0.7 |
| 0.76 | 0.9 | 0.9 |

Estimation of Impact

| | Impact : IP | Impact : IC | Impact : ID | Impact : IE |
|----|-------------|-------------|-------------|-------------|
| E1 | 7 | 7 | 3 | 1 |
| E2 | 9 | 7 | 6 | 1 |
| E3 | 7 | 6 | 6 | 1 |
| E4 | 6 | 6 | 4 | 5 |
| E5 | 7 | 5 | 2 | 9 |
| E6 | 7 | 7 | 7 | 8 |

Les Matrices AHP

E1

| | F1 | F2 | F3 | F4 |
|----|------|-----|---------------|---------------|
| F1 | 1.0 | 4.0 | 4.0 | 4.0 |
| F2 | 0.25 | 1.0 | 0.5 | 0.125 |
| F3 | 0.25 | 2.0 | 1.0 | 0.14285714285 |
| F4 | 0.25 | 8.0 | 7.00000000035 | 1.0 |

E2

| | F1 | F2 | F3 | F4 |
|----|-----|-----|------|-----|
| F1 | 1.0 | 3.0 | 0.25 | 0.5 |

| | F1 | F2 | F3 | F4 |
|----|--------------------|-------------------|------------|---------------|
| F2 | 0.3333333333333333 | 1.0 | 0.11111111 | 0.14285714285 |
| F3 | 4.0 | 9.000000900000009 | 1.0 | 2.0 |
| F4 | 2.0 | 7.000000000035 | 0.5 | 1.0 |

E3

| | F1 | F2 | F3 | F4 |
|----|-------------------|-----|---------------------|-----|
| F1 | 1.0 | 4.0 | 0.33333 | 2.0 |
| F2 | 0.25 | 1.0 | 0.125 | 0.5 |
| F3 | 3.000030000300003 | 8.0 | 1.0 | 7.0 |
| F4 | 0.5 | 2.0 | 0.14285714285714285 | 1.0 |

E4

| | F1 | F2 | F3 | F4 |
|----|---------------------|--------------------|-----|-----|
| F1 | 1.0 | 2.0 | 4.0 | 7.0 |
| F2 | 0.5 | 1.0 | 3.0 | 5.0 |
| F3 | 0.25 | 0.3333333333333333 | 1.0 | 2.0 |
| F4 | 0.14285714285714285 | 0.2 | 0.5 | 1.0 |

E5

| | F1 | F2 | F3 | F4 |
|----|---------------------|--------------------|-------------------|--------------------|
| F1 | 1.0 | 6.0 | 8.0 | 2.0 |
| F2 | 0.16666666666666666 | 1.0 | 3.0 | 0.33333 |
| F3 | 0.125 | 0.3333333333333333 | 1.0 | 0.1666666666666666 |
| F4 | 0.5 | 3.000030000300003 | 6.000000000000024 | 1.0 |

E6

| | F1 | F2 | F3 | F4 |
|----|--------------------|---------------------|-----|-----|
| F1 | 1.0 | 0.33333 | 3.0 | 4.0 |
| F2 | 3.000030000300003 | 1.0 | 5.0 | 7.0 |
| F3 | 0.3333333333333333 | 0.2 | 1.0 | 2.0 |
| F4 | 0.25 | 0.14285714285714285 | 0.5 | 1.0 |

**Calculation of the risk factor concentration
for each undesirable event**

| Undesirable event | Linked risk factor category | Factors of category Xi | Weighting:Yi | Xi*Yi | Fraction of total Eq | Probability of Occurrence | Max Impact | Level of Risk |
|-------------------|-----------------------------|------------------------|--------------|-------|----------------------|---------------------------|------------|---------------|
| E1 | F1 | 7 | 4.0 | 28.0 | -- | -- | -- | -- |
| | F4 | 7 | 2.0 | 14.0 | -- | -- | -- | -- |
| | | | Sub-Total E1 | 42.0 | 0.22340426 | 0.3 | 7.0 | 2.1000001 |
| E2 | F1 | 7 | 4.0 | 28.0 | -- | -- | -- | -- |
| | F3 | 3 | 3.0 | 9.0 | -- | -- | -- | -- |
| | F4 | 7 | 2.0 | 14.0 | -- | -- | -- | -- |
| | | | Sub-Total E2 | 51.0 | 0.2712766 | 0.5 | 9.0 | 4.5 |
| E3 | F3 | 3 | 3.0 | 9.0 | -- | -- | -- | -- |
| | | | Sub-Total E3 | 9.0 | 0.047872342 | 0.1 | 7.0 | 0.7 |
| E4 | F4 | 7 | 2.0 | 14.0 | -- | -- | -- | -- |
| | | | Sub-Total E4 | 14.0 | 0.07446808 | 0.1 | 6.0 | 0.6 |
| E5 | F4 | 7 | 2.0 | 14.0 | -- | -- | -- | -- |
| | F1 | 7 | 4.0 | 28.0 | -- | -- | -- | -- |
| | | | Sub-Total E5 | 42.0 | 0.22340426 | 0.3 | 9.0 | 2.7 |
| E6 | F1 | 7 | 4.0 | 28.0 | -- | -- | -- | -- |
| | F2 | 2 | 1.0 | 2.0 | -- | -- | -- | -- |
| | | | Sub-Total E6 | 30.0 | 0.15957446 | 0.15957446 | 8.0 | 1.2765957 |
| | | | Total | 188.0 | 100 % | | | |

Result :

| Accepted Risks | |
|----------------|----------------------|
| Code | Description |
| E1 | Work-related illness |
| E3 | Drop in quality |
| E4 | Inadequate design |
| E6 | Explosion and fire |

| Risks à reduire | |
|-----------------|----------------------|
| Code | Description |
| E2 | Drop in productivity |
| E5 | Pollution |