Title Project : Industrial relocation

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Type: Prevention ---- 'javascript:precise_round(2.36321574, 2);'

Departement : Industrial

Probability Scale

| Relative conce | Probability of occurrence | |
|----------------|---------------------------|-----|
| 0.0 | 0.15 | 0.1 |
| 0.15 | 0.25 | 0.3 |
| 0.25 | 0.5 | 0.5 |
| 0.5 | 0.75 | 0.7 |
| 0.75 | 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 | Weight | |
|----|------|---------|------|------|--------|--|
| F1 | 1.0 | 5.0 3.0 | | 0.5 | 0.28 | |
| F2 | 0.2 | 1.0 | 0.5 | 0.13 | 0.06 | |
| F3 | 0.33 | 2.0 | 1.0 | 0.14 | 0.1 | |
| F4 | 2.0 | 7.69 | 7.14 | 1.0 | 0.56 | |

E2

| | F1 | F2 | F3 | F4 | Weight | |
|----|-----|-----|------|-----|--------|--|
| F1 | 1.0 | 3.0 | 0.25 | 0.5 | 0.14 | |

| | F1 | F2 | F3 F4 | | Weight | |
|----|------|------|-------|------|--------|--|
| F2 | 0.33 | 1.0 | 0.11 | 0.14 | 0.05 | |
| F3 | 4.0 | 9.09 | 1.0 | 2.0 | 0.52 | |
| F4 | 2.0 | 7.14 | 0.5 | 1.0 | 0.29 | |

E3

| | F1 | F2 F3 | | F4 | Weight |
|----|------|--------------|----------|-----|--------|
| F1 | 1.0 | 1.0 4.0 0.33 | | 2.0 | 0.22 |
| F2 | 0.25 | 1.0 | 0.13 0.5 | | 0.06 |
| F3 | 3.03 | 7.69 | 1.0 | 7.0 | 0.62 |
| F4 | 0.5 | 2.0 | 0.14 | 1.0 | 0.11 |

E4

| | F1 | F2 | F3 | F4 | Weight | |
|----|------|-------------|-----|----------|--------|--|
| F1 | 1.0 | 1.0 2.0 4.0 | | 7.0 | 0.51 | |
| F2 | 0.5 | 1.0 | 3.0 | 5.0 0.31 | | |
| F3 | 0.25 | 0.33 | 1.0 | 2.0 | 0.12 | |
| F4 | 0.14 | 0.2 | 0.5 | 1.0 | 0.06 | |

E5

| | F1 | F2 | F3 | F4 | Weight | |
|----|------|------|------|------|--------|--|
| F1 | 1.0 | 6.0 | 8.0 | 2.0 | 0.54 | |
| F2 | 0.17 | 1.0 | 3.0 | 0.33 | 0.11 | |
| F3 | 0.13 | 0.33 | 1.0 | 0.17 | 0.05 | |
| F4 | 0.5 | 3.03 | 5.88 | 1.0 | 0.3 | |

E6

| | F1 | F2 F3 | | F2 F3 F4 | | F4 | Weight |
|----|------------|-------|-----|----------|------|----|--------|
| F1 | 1.0 0.33 3 | | 3.0 | 4.0 | 0.25 | | |
| F2 | 3.03 | 1.0 | 5.0 | 7.0 | 0.57 | | |
| F3 | 0.33 | 0.2 | 1.0 | 2.0 | 0.11 | | |
| F4 | 0.25 | 0.14 | 0.5 | 1.0 | 0.07 | | |

Calculation of the risk factor concentration for each undesirable event

| Undesirable event | Linked risk factor category | Factors of category | Weighting:Yi | Xi*Yi | Fraction of total Eq | Probability of Occurence | Max Impact | Level of Risk |
|-------------------|-----------------------------------|---------------------|-----------------|-------|----------------------|-----------------------------|---------------|------------------|
| E1 | F1 | 7 | 4.0 | 28.0 | | | | |
| | F4 | 7 | 3.0 | 21.0 | | | | |
| | | | Sub-Total E1 | 49.0 | 0.23333333 | 0.3 | 7.0 | 2.1000001 |
| E2 | F1 | 7 | 4.0 | 28.0 | | | | |
| | F3 | 3 | 2.0 | 6.0 | | | | |
| | F4 | 7 | 3.0 | 21.0 | | | | |
| | | | Sub-Total E2 | 55.0 | 0.26190478 | 0.5 | 9.0 | 4.5 |
| E3 | F3 | 3 | 2.0 | 6.0 | | | | |
| | | | Sub-Total E3 | 6.0 | 0.028571429 | 0.1 | 7.0 | 0.7 |
| E4 | F4 | 7 | 3.0 | 21.0 | | | | |
| | | | Sub-Total E4 | 21.0 | 0.1 | 0.1 | 6.0 | 0.6 |
| E5 | F4 | 7 | 3.0 | 21.0 | | | | |
| | F1 | 7 | 4.0 | 28.0 | | | | |
| | | | Sub-Total E5 | 49.0 | 0.23333333 | 0.3 | 9.0 | 2.7 |
| E6 | F1 | 7 | 4.0 | 28.0 | | | | |
| | F2 | 2 | 1.0 | 2.0 | | | | |
| | | | Sub-Total E6 | 30.0 | 0.14285715 | 0.1 | 8.0 | 0.8 |
| | | | Total | 210.0 | 100 % | | | |

Result: Limit ACCEPT = 2.5

| | 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 | | | |
| E 5 | Pollution | | | |