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	F2 F3		Weight	
F1	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	F3 F4	
F1	1.0	1.0 2.0 4.0 7.		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		F1 F2 F3 F		F4	Weight
F1	1.0	0.33	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			
E5 Pollution				