List of Tables

Chapter 2  Literature Survey

Table 2.1  Typical Risk Management Sequence  18
Table 2.2  The possible risks that could be encountered during a large project  21
Table 2.3  Quantitative Risk Analysis Techniques  36
Table 2.4  Net income projections  40
Table 2.5  States, probabilities and NPV’s  40
Table 2.6  Design Requirements for a computer aid for risk analysis  63
Table 2.7  A small example of a simulation  66
Table 2.8  A typical example of a risk matrix  77
Table 2.9  Deciding which method of handling risks depending upon likelihood and severity  78

Chapter 3  Questionnaire on Risk Management

Table 3.1  Breakdown of responses  98

Chapter 4  Analysis of the Questionnaire

Table 4.1  Table representing mean age against job responsibility  104
Table 4.2  Table portraying average years in industry against job responsibility  105
Table 4.3  Table representing average years with present company against job responsibility  106
Table 4.4  A table showing the average grades given for question 3 (parts a)-d(i)) by the entire sample  107
Table 4.5  Table containing means and s.d. for questions 6-10  113
Table 4.6  Averages and standard deviations for the overall, construction and oil industries for question 21  127
Table 4.7  Summary of the response ratios, means and s.d.’s for the risk sharing methods  134
Table 4.8  A table to exhibit the spread of replies, their means and standard
deviations to expose the influential reasons for retaining risks

Table 4.9 Identification of the qualitative risk analysis techniques with their corresponding mean values

Table 4.10 Identification of the quantitative risk analysis techniques with their corresponding mean values

Table 4.11 A table to display the ‘graded league’ of the FREQUENCY of techniques available for all the divisions.

Table 4.12 A table to display the ‘graded league’ of the SUCCESS of techniques available for all the divisions

Table 4.13 Percentages of respondents who allocated ranks 1 and 2 for the frequency and success of qualitative techniques

Table 4.14 Percentages of respondents who allocated ranks 1 and 2 for the frequency and success of quantitative techniques

Table 4.15 Distribution of the eight items on accident (at the workplace) attribution for a representative sample of the Swedish population, a group of safety executives and the respondents from the RMQ. *

Table 4.16 The responses of the group of Swedish safety executives and RMQ respondents on items about the definition of acceptable risk and items on attitudes towards risks.

Table 4.17 A table summarising the means and order of importance of the six types of risk for the two industries separately and together (labelled ‘overall’)

Chapter 5 Risk Analysis Techniques used by AHL in comparison with other Oil Companies

Table 5.1 A table illustrating the frequency and success differences in the qualitative risk analysis techniques used by AHL and Y and the Oil Industry as a whole

Table 5.2 A table illustrating the frequency and success differences in the quantitative risk analysis techniques used by AHL and Y and the Oil Industry as a whole
Chapter 6  Case Study: AH001 Installation QRA

Table 6.1  Relative risk ranking - Definition of Frequency and Consequence Categories

Table 6.2  Risk Ranking Matrix

Table 6.3  Risk Levels for the event tree presented in Figure 6.11

Table 6.4  Hole size distributions for Separators/Vessels

Table 6.5  Blow-out incidents for gas and oil

Table 6.6  Delayed ignition probability for each breach size

Chapter 7  Improvements to AHL Risk Analysis Process

Table 7.1  A table presenting the best estimates and s.d.s for the branches in Figure 7.1, i.e Event I/21

Table 7.2  A table containing some relevant data and the most divergent mean of the 10 runs for each of the 6 iteration amounts

Table 7.3  The statistics received from @RISK for the simulation

Chapter 8  Conclusions

Table 8.1  Ordered list of the most successful techniques

Table 8.2  Ordered lists of risk importance