

# CONTENTS

<i>List of Tables</i>	<i>xiii</i>
<i>List of Figures</i>	<i>xv</i>
<i>Files on the Web Accompanying This Book</i>	<i>xvii</i>
<i>Acronyms and Abbreviations</i>	<i>xix</i>
<i>Glossary</i>	<i>xxiii</i>
<i>Acknowledgements</i>	<i>xxv</i>
<i>Preface</i>	<i>xxvii</i>
<b>1. INTRODUCTION AND SCOPE</b>	<b>1</b>
1.1 Case Study: Hickson and Welsh Ltd.—England (1994)	1
1.1.1 Lesson Learned	2
1.2 Introduction	3
1.3 The Need for Management of Organizational Change	5
1.4 Organization of this Book	6
1.5 A History of Organizational Change Management	11
1.6 Definitions Related to Management of Organizational Change	16
References	18
<b>2. CORPORATE STANDARD FOR ORGANIZATIONAL CHANGE MANAGEMENT</b>	<b>21</b>
2.1 Case Study: BP—Grangemouth, Scotland (2000)	21
2.2 OCM Background	24
2.3 Management Commitment	25
2.4 OCM Policy	26
2.5 OCM Workflow	27
2.6 OCM Procedure	28
2.7 Definition of Organizational Change	29
2.8 Roles and Responsibilities	32
2.9 Initiate an Organizational Change	32
2.9.1 Example OCM Case	33
2.10 Review the Change	34
2.11 OCM Risk Assessment	35
2.11.1 Preparation—Selecting the OCM RA Team	36
2.11.2 Preparation—Gathering Relevant Data	37

**x Guidelines For Managing Process Safety Risks During Organizational Change**

2.11.3	Preparation—Selecting the OCM RA Method(s) and Tool(s)	39
2.11.4	Facilitation of the Risk Assessment	52
2.11.5	Documenting the Risk Assessment	54
2.12	Action and Implementation/Transition Plans	55
2.12.1	Example OCM Case	58
2.13	Postimplementation Monitoring	59
2.13.1	Example OCM Case	60
2.14	Closeout	61
2.15	Conclusion	61
	References	62

**3. MODIFICATION OF WORKING CONDITIONS 65**

3.1	Case Study: Esso—Longford, Victoria, Australia (1998)	65
3.1.1	Lessons Learned	67
3.2	Modifying Location, Communications, or Time Allocation for People	68
3.3	Case Study: Changes in Shift Schedules and Staffing During Turnarounds	69
3.3.1	Lessons Learned	71
3.4	Changes to Terms and Conditions of Employment (e.g., Hours, Shifts, Allowable Overtime)	72
3.5	Staffing During Turnarounds, Facility-Wide Emergencies, or Extreme Weather Events	74
3.6	Impacts and Associated Risks	76
3.7	Special Training Requirements	79
3.8	Conclusion	80
	References	81

**4. PERSONNEL CHANGES 83**

4.1	Case Study: Union Carbide—Bhopal, India (1984)	83
4.1.1	Lessons Learned	85
4.2	Case Study: Bayer CropScience, LLC—Institute, West Virginia, USA (2008)	87
4.2.1	Lessons Learned	88
4.3	Changes in Plant Management (e.g., Plant Manager or EHS Manager)	91
4.4	Replacement of a Subject Matter Expert	92
4.5	Replacing the Incumbent in a Position that Directly Affects Process Safety	93
4.6	Strikes, Work Stoppages, Slowdowns, and Other Workforce Actions	93
4.7	Emergency Response Team Staffing	95
4.8	Impacts/Associated Risks	95

4.9	Organizational Change Procedures versus OCM for New Hires, Promotions, etc.	97
4.10	Conclusion	98
	References	98
<b>5.</b>	<b>TASK ALLOCATION CHANGES</b>	<b>99</b>
5.1	Downsizing Examples	99
5.2	Task Allocation Changes	101
5.3	Job Competency Change	102
5.4	Case Study: Bayer CropScience LLC—Institute, West Virginia, USA (2008)	103
5.4.1	Lessons Learned	104
5.5	Assigning New Responsibilities	105
5.6	Temporary Backfilling	106
5.7	Vanishing Task Allocations	106
5.8	Case Study: BP—Whiting, Indiana, USA (1998–2006)	107
5.8.1	Lessons Learned	108
5.9	Impacts/Associated Risks	109
5.10	Conclusions	111
	References	112
<b>6.</b>	<b>ORGANIZATIONAL HIERARCHY CHANGES</b>	<b>113</b>
6.1	Centralization or Decentralization of Job Functions	114
6.2	Case Study: Esso—Longford, Victoria, Australia (1998)	115
6.2.1	Lessons Learned	115
6.3	Reorganizations and Delaying the Hierarchy	117
6.4	Impacts/Associated Risks	119
6.5	Changes to Span of Control	121
6.6	Impacts/Associated Risks	122
6.7	Linear vs. Matrix Organization	122
6.8	Case Study: BP—Texas City, Texas, USA (2005)	124
6.8.1	Lessons Learned	125
6.9	Impacts/Associated Risks	126
6.10	Acquisitions, Mergers, Divestitures, and Joint Ventures	127
6.11	Case Study: Anonymous, USA (1998)	127
6.11.1	Lessons Learned	128
6.12	Associated Risks	128
6.13	Case Study: Union Carbide—Bhopal, India (1984)	129
6.13.1	Lessons Learned	129
6.14	Changing Service Providers	132
6.15	Impacts/Associated Risks	132
6.16	Conclusion	133
	References	134

**7. ORGANIZATIONAL POLICY CHANGES 135**

7.1	Case Study: Dupont—Delaware, USA (1818)	135
7.1.1	Lessons Learned	136
7.2	Changes to Mission and Vision Statements	136
7.3	New and Revised Corporate Process Safety Related Policies/Procedures	138
7.4	Major Changes to Policy or Budgets for Maintenance or Operations	139
7.5	Impacts/Associated Risks	140
7.6	In/Outsourcing of Key Departmental Functions (e.g., Engineering Design or Maintenance)	142
7.7	Staffing-Level Policy Changes (Shutdowns, Turnarounds, Startups)	144
7.8	Special Training Requirements	146
7.9	Conclusion	146
	References	147

**APPENDIX A: EXAMPLE TOOLS FOR EVALUATING ORGANIZATIONAL CHANGES 149**

A.1	What-If Analysis	149
A.2	Checklists	150
A.3	Other Risk Assessment Tools	188
A.4	Special Competency Assessment for Control Room Staff	188
	References	198

**APPENDIX B: EXAMPLE PROCEDURES FOR MANAGING ORGANIZATIONAL CHANGES 199**

**INDEX 237**