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Autore	Tuve, Rosemond
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Nota di contenuto	Guidelines for Process Safety in Outsourced Manufacturing Operations; CONTENTS; Preface; Acknowledgments; Acronyms and Abbreviations; 1 INTRODUCTION; 1.1. This Guideline's Scope; 1.2. The Guideline's Audience; 1.3. What Is Outsourced Manufacturing?; 1.4. Why Toll? Business, Technical, and Safety Considerations; 1.5. Advantages and Disadvantages of Tolling; 1.6. Joint Responsibilities; 1.7. Using Process Safety to Ensure Safety, Product Quality, and Environmental Compliance; 1.8. How to Use This Guideline; 2 THE TOLLER SELECTION PROCESS; 2.1. Potential Candidates: How to Find One-How to Be One 2.1.1. Identifying Technical Specialties and Expertise2.1.2. Prequalified Tollers-The Preferred Route; 2.1.3. Finding a New Toller-Technical and Trade Association Networking; 2.2. The Initial Qualification Process; 2.2.1. Assessing the Candidates-Lines of Communication; 2.2.2. A Typical Questionnaire; 2.2.3. Weighing Special Technical Competencies; 2.2.4. Financial; 2.2.4. Consider Location; 2.2.6. Consider the Environmental Baseline; 2.2.7. Verifying Safety, Quality, and Contractual

Obligations; 2.2.8. Process Equipment Capabilities; 2.2.9. Personnel Capabilities and Expertise  
 2.2.10. Capability to Scale-up Production 2.2.11. Process Safety; 2.2.12. Security; 2.2.13. Corporate Health, Safety, and Environmental Policies; 2.2.14. Housekeeping and Appearance; 2.2.15. Insurance Review and Experience Modifiers; 2.1.16. Conducting a Site Visit; 2.2.17. Compatibility with Ongoing Operations; 2.2.18. Initial Qualification of International Tollers; 2.3. Making the Final Selection; 2.3.1. Comparing and Ranking the Initial Qualification Information; 2.3.2. Audit and Verification Process; 2.3.3. Confidentiality Agreements; 2.3.4. Finalizing the Technology Package  
 2.3.5. Evaluating Proposals 2.3.6. Contract Award and Negotiation; 3  
 MUTUAL AGREEMENTS, OBLIGATIONS, AND CONTRACT  
 CONSIDERATIONS; 3.1. Defining the Rights and Expectations of the Parties; 3.2. Legal Obligations, Defining Boundaries, Contract Topics; 3.3. Technology Transfer; 3.4. Technology Developed during Tolling Operations; 3.5. Knowledge Enhancement for Both Parties; 3.5.1. New Learning about Processing Hazards and Production Efficiency; 3.6. Roles and Responsibilities; 3.6.1. What Is Contained in a Detailed Technology Package?; 3.6.2. Scale Up Technology  
 3.6.3. Emergency Response Considerations 3.6.4. Wastes and Emissions; 3.6.5. Establishing and Maintaining Communication; 3.6.6. Participation in PHAs: Resolving the Issues; 3.6.7. Training Requirements; 3.7. Health, Safety, and Environmental Considerations; 3.8. Management Systems; 3.8.1. Management of Change, Including Change of Personnel; 3.8.2. Defining and Executing Training Requirements; 3.9. Access and Right to Audit; 3.10. Requalification: The Time Frame Issue; 3.11. Equipment Selection, Preparation, and Decontamination; 3.12. Performance Clauses and Bonuses  
 3.13. Insurance Requirements

## Sommario/riassunto

In today's competitive economy, companies often augment in-house production by outsourcing chemical reaction processes and distillation, drying, formulating, blending, and packaging operations. While most of these tolling, or contracted manufacturing services, proceed without incident, recent major accidents have pointed to weaknesses in some tolling arrangements, such as reactivity of materials and processes. This Guidelines book provides the reader with proven procedures to improve process safety throughout the life cycle of a contracted manufacturing operation. Extensive checklists and exam