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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

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## 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

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