

Chapter 14

Appendices for chapters 7-13

The appendices that follow contain details of the six cases analyzed, for the smallest scale process considered. The appendices are as follows:

Appendix A	Case 1: Texaco gasifier and steam reforming of natural gas (including fugitive emissions study)
Appendix B	Case 2: Lurgi gasifier
Appendix C	Case 3: Natural gas only
Appendix D	Case 4: Texaco gasifier and sour gas shift converter
Appendix E	Case 5: Shell gasifier and sour gas shift converter
Appendix F	Case 6: Shell gasifier and steam reforming of natural gas
Appendix G	Case 7: Texaco gasifier and power production facility (higher alcohols as by-products and methanol burned to provide peaking power)
Appendix H	Scale-up and comparison of design cases

Appendices A-G are organized as follows:

Process description, equipment sizing, and cost

Flow Sheet

Flow Table

Energy Analysis

In addition, Appendix A contains the results of the fugitive emissions analysis. Finally, Appendix H contains a tabular comparison of the cases, a tabular summary of the capital costs for the scaled-up cases, and a tabular summary of the manufacturing cost.