

ENERGY CONSERVATION STANDARDS FOR RESIDENTIAL FURNACES AND BOILERS

TECHNICAL SUPPORT DOCUMENT (Documents List):

CHAPTERS

=====

Chapter 1:	Introduction
Chapter 2:	Analytic Framework
Chapter 3:	Market and Technology Assessment
Chapter 4:	Screening Analysis
Chapter 5:	Markups for Equipment Price Determination
Chapter 6:	Engineering Analysis
Chapter 7:	Energy Consumption of Furnaces and Boilers
Chapter 8:	Life-Cycle Cost and Payback Period Analysis
Chapter 9:	Shipments
Chapter 10:	National Impact Analysis
Chapter 11:	Consumer Sub-Group Analysis
Chapter 12:	Manufacturer Impact Analysis
Chapter 13:	Utility Impact Analysis
Chapter 14:	Employment Impact Analysis
	Environmental Assessment
	Regulatory Impact Analysis

APPENDIXES

=====

Appendix A:	Detailed Data for Equipment Price Markups
Appendix B:	Technical Description of the Reverse Engineering Cost Estimation Methodology
Appendix C:	Installation Model
Appendix D:	Determination of Furnace and Boiler Energy Use in the Engineering Analysis
Appendix E:	Engineering Analysis Cost and Efficiency Tables
Appendix F:	Reduced Set of Furnace Models Database
Appendix G:	Decoding of Manufacturer Model Numbers
Appendix H:	Determination of Basic Furnace and Boiler Models
Appendix I:	Furnace Fan Curves
Appendix J:	Furnace Fan Power Curves
Appendix K:	Air Moving Efficiency
Appendix L:	Determination of Furnace and Boiler Energy Use in the LCC Analysis
Appendix M:	Derivation of Heating Load Hours
Appendix N:	User Instructions for the Life-Cycle Cost Analysis Spreadsheet
Appendix O:	Glossary of Variables and Their Values from EIA's RECS 2001

Appendix P:	Distribution for Discount Rates
Appendix Q:	Life-Cycle Cost and Payback Period Results Using Alternative Energy Price Scenarios
Appendix R:	National Energy Savings and Net Present Value Using Alternative Energy Price Scenarios
Appendix S:	User Instructions for Shipments and National Energy Savings Spreadsheet Model
Appendix T:	Life-Cycle Cost and Payback Period Results Using Alternative Material Price Scenarios
Appendix U:	Interpolation of Utility and Environmental Results from NEMS-BT Output
Appendix V:	NEMS-BT2 Extension Modeling Beyond 2025
Appendix W:	Emissions Factors for Fuel Combustion from Natural Gas, LPG, and Oil-Fired Residential Furnaces and Boilers
Appendix X:	Using Implementation Curves to Estimate Market Penetration of Non-Regulatory Policies
Appendix Y:	Government Regulatory Impact Model (GRIM)