

CHAPTER ONE: INTRODUCTION.....	1
STUDY GOALS AND OBJECTIVES.....	1
REASONS FOR DOING THE STUDY	1
INTENDED AUDIENCE.....	1
SCOPE OF REPORT	2
METHODOLOGY	2
INFORMATION SOURCES.....	3
ANALYST CREDENTIALS.....	3
RELATED REPORTS.....	3
BCC ONLINE SERVICES.....	4
DISCLAIMER	4
CHAPTER TWO: SUMMARY.....	5
SUMMARY.....	5
<i>SUMMARY TABLE GLOBAL SOFC MARKET SUMMARY BY TECHNOLOGY, BY APPLICATION, CONSENSUS SCENARIO (\$ MILLIONS)</i>	6
<i>SUMMARY FIGURE GLOBAL SOFC MARKET SUMMARY BY TECHNOLOGY, BY APPLICATION, CONSENSUS SCENARIO (\$ MILLIONS)</i>	6
<i>SUMMARY FIGURE (CONTINUED)</i>	7
CHAPTER THREE: OVERVIEW	8
FUEL CELL BACKGROUND.....	8
<i>TABLE 1 SOFC COMPARED TO OTHER FUEL CELLS</i>	9
SOLID OXIDE FUEL CELL BACKGROUND	9
SOFC MATERIALS.....	10
SOFC Electrodes, Electrolytes, and Interconnects	11
SOFC Glass Seals.....	12
SOFC Gaskets.....	13
<i>TABLE 2 SOFC GASKET MATERIALS</i>	13
<i>TABLE 2 (CONTINUED)</i>	14
Recent SOFC Material Developments.....	14
Georgia Tech SOFC Ceramic Material	14
Georgia Tech ...Continued)	15
National Institute of Advanced Industrial Science and Technology and the Fine Ceramics Research Association Electrode Compositions	16
University of Illinois at Urbana-Champaign Ceramic Microreactors	17
Cornell One-Pot Process	17
West Virginia University Interconnect Coatings	18
Nippon Shokubai Zirconia Sheets.....	19
<i>TABLE 3 NIPPON SHOKUBAI ZIRCONIA SHEET SPECIFICATIONS</i>	20

University of Birmingham Electrode Doping	20
Virginia Tech Self-healing Glass Seals	21
SOFC TECHNOLOGY: CURRENT AND DEVELOPMENTAL	
CONFIGURATIONS.....	22
Generic Planar SOFC Configuration	23
<i>FIGURE 1 PLANAR SOFC CONFIGURATION.....</i>	<i>24</i>
Generic Thin-film Configuration	24
<i>FIGURE 2 THIN-FILM SOFC CONFIGURATION.....</i>	<i>25</i>
Generic Tubular Configuration.....	25
<i>FIGURE 3 TUBULAR SOFC CONFIGURATION.....</i>	<i>26</i>
Westinghouse Design	26
Siemens Power Generation Design.....	27
National Institute of Advanced Industrial Science and Technology (AIST) Design	28
National Institute of ... (Continued)	29
NanoDynamics Energy Microtubular Configuration.....	30
MIT Design	31
MIT Design (Continued)	32
Ceres Design	33
Bloom Energy SOFC Hydrogen Generation Design	34
FuelCon SOFC Test Station.....	34
SOFC Gas Turbine Hybrids	35
<i>FIGURE 4 FUELCELL ENERGY SOFC/T HYBRID SYSTEM AND TORPEDO CONFIGURATION.....</i>	<i>36</i>
GOVERNMENT REGULATIONS AND SUBSIDIES.....	37
U.S. FEDERAL FUEL CELL SUBSIDIES AND INCENTIVES	38
U.S Department of Energy	38
History of U.S. DOE SOFC Subsidies.....	39
History of U.S. DOE ... (Continued)	40
History of U.S. DOE ... (Continued)	41
History of U.S. DOE ... (Continued)	42
History of U.S. DOE ... (Continued)	43
History of U.S. DOE ... (Continued)	44
U.S. Fuel Cell Budget Situation in 2009	45
History of U.S. DOE ... (Continued)	46
History of U.S. DOE ... (Continued)	47
U.S. Fuel Cell Budget Situation in 2010	48
<i>TABLE 4 2010 BUDGET HYDROGEN AND FUEL CELL TECHNOLOGIES FUNDING PROFILE BY SUBPROGRAM, 2009- 2011 (\$ THOUSANDS).....</i>	<i>48</i>
<i>TABLE 4 (CONTINUED).....</i>	<i>49</i>
U.S. Fuel Cell Budget ... (Continued)	50
U.S. Fuel Cell Budget Situation in 2011	51
<i>TABLE 5 2011 PROPOSED FISCAL FUEL CELL BUDGET.....</i>	<i>52</i>

U.S. DOE Draft “Hydrogen and Fuel Cells Program Plan”	52
U.S. DOE Draft “Hydrogen ... (Continued)	53
U.S. DOE Draft “Hydrogen ... (Continued)	54
U.S. DOE Draft “Hydrogen ... (Continued)	55
OTHER U.S. FUEL CELL SUBSIDIES AND INCENTIVES.....	56
U.S. Fuel Cell Council Analysis of Funding Priorities	57
U.S. Fuel Cell Council Analysis of ... (Continued)	58
Office of Science	59
National Hydrogen Association	60
National Science Foundation	61
Department of Defense.....	62
State Incentives	63
Federal Excise Tax Exemption for Anti-idling.....	64
GLOBAL SUBSIDIES AND INCENTIVES.....	65
Canadian Subsidies and Incentives.....	65
European Subsidies and Incentives.....	65
Japanese Subsidies and Incentives	66
South Korean Subsidies and Incentives.....	67
South Korean Subsidies and ... (Continued)	68
SOFC RESEARCH.....	69
ACADEMIC INSTITUTIONS.....	69
<i>TABLE 6 MAJOR INSTITUTIONAL RESEARCH INTO PEM FUEL</i>	
<i>CELLS.....</i>	<i>70</i>
CHAPTER FOUR: MARKETS BY APPLICATION	71
COMBINED HEAT AND POWER.....	71
CHP DEVELOPMENTS	72
U.S. DOE EERN CHP Developments.....	72
<i>TABLE 7 PRELIMINARY TECHNICAL TARGETS: 1-10 KWE</i>	
<i>RESIDENTIAL COMBINED HEAT AND POWER FUEL CELLS</i>	
<i>OPERATING ON NATURAL GAS, 2008-2020</i>	<i>73</i>
<i>TABLE 8 PRELIMINARY TECHNICAL TARGETS: 1-10 KWE FUEL</i>	
<i>CELL AUXILIARY POWER UNITS OPERATING ON STANDARD</i>	
<i>ULTRA-LOW SULFUR DIESEL FUEL, 2008-2020.....</i>	<i>73</i>
European Union SOFC Research Partnership CHP	
Developments	74
European Union SOFC ... (Continued).....	75
Hydrogen and Fuel Cell Technical Advisory Committee	
(HTAC) CHP Developments	76
Ceres Power CHP Developments.....	76
Ceres Power CHP Developments (Continued).....	77
GENERATORS, REMOTE POWER, AND AUXILIARY POWER	78
GENERATORS AND PORTABLE POWER PLANTS	79
RECREATIONAL VEHICLE POWER.....	80
ANTI-IDLING APUS	80

Anti-idling APUs (Continued).....	81
AIRCRAFT APUS	82
Aircraft APUs (Continued).....	83
MARINE VESSEL APUS	84
PORTABLE PRODUCTS	85
MILITARY.....	85
EXOTIC	85
EXOTIC (CONTINUED).....	86
EXOTIC (CONTINUED).....	86
CHAPTER FIVE: SOFC MARKET SUMMARY	87
SOFC SEGMENTS ANALYZED.....	87
SOFC MARKET DRIVERS AND BASIS FOR SCENARIOS	88
SOFC APPLICATION MARKET DRIVER SCENARIOS.....	89
<i>TABLE 9 SOFC OPTIMISTIC, PESSIMISTIC, AND CONSENSUS</i>	
<i>SCENARIOS, BY APPLICATION</i>	<i>89</i>
<i>TABLE 9 (CONTINUED).....</i>	<i>90</i>
<i>TABLE 9 (CONTINUED).....</i>	<i>91</i>
<i>TABLE 9 (CONTINUED).....</i>	<i>92</i>
<i>TABLE 9 (CONTINUED).....</i>	<i>93</i>
<i>TABLE 9 (CONTINUED).....</i>	<i>94</i>
SOFC REGIONAL MARKET DRIVER SCENARIOS.....	95
<i>TABLE 10 SOFC OPTIMISTIC, PESSIMISTIC, AND CONSENSUS</i>	
<i>SCENARIOS, BY REGION.....</i>	<i>95</i>
<i>TABLE 10 (CONTINUED).....</i>	<i>96</i>
<i>TABLE 10 (CONTINUED).....</i>	<i>97</i>
<i>TABLE 10 (CONTINUED).....</i>	<i>98</i>
SOFC PRODUCT MARKET DRIVER SCENARIOS.....	99
<i>TABLE 11 SOFC OPTIMISTIC, PESSIMISTIC, AND CONSENSUS</i>	
<i>SCENARIOS</i>	<i>99</i>
<i>TABLE 11 (CONTINUED).....</i>	<i>100</i>
<i>TABLE 11 (CONTINUED).....</i>	<i>101</i>
<i>TABLE 11 (CONTINUED).....</i>	<i>102</i>
SOFC MARKETS BY APPLICATION.....	103
<i>TABLE 12 GLOBAL SOFC MARKET PROJECTIONS BY</i>	
<i>TECHNOLOGY, BY APPLICATION, CONSENSUS SCENARIO,</i>	
<i>THROUGH 2016 (\$ MILLIONS).....</i>	<i>103</i>
<i>FIGURE 5 GLOBAL SOFC MARKET PROJECTIONS BY</i>	
<i>TECHNOLOGY, BY APPLICATION, CONSENSUS SCENARIO, 2006-</i>	
<i>2016 (\$ MILLIONS).....</i>	<i>104</i>
<i>FIGURE 6 GLOBAL SOFC MARKET PROJECTIONS BY</i>	
<i>TECHNOLOGY BY APPLICATION IN 2011, CONSENSUS</i>	
<i>SCENARIO (%)</i>	<i>104</i>
<i>FIGURE 6 (CONTINUED)</i>	<i>105</i>

TABLE 13 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY APPLICATION, OPTIMISTIC SCENARIO, THROUGH 2016 (\$ MILLIONS).....	105
TABLE 14 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY APPLICATION, PESSIMISTIC SCENARIO, THROUGH 2016 (\$ MILLIONS).....	106
SOFC MARKETS BY REGION.....	106
TABLE 15 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY REGION, CONSENSUS SCENARIO, THROUGH 2016 (\$ MILLIONS).....	106
FIGURE 7 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY REGION, CONSENSUS SCENARIO, 2006-2016 (\$ MILLIONS).....	107
FIGURE 8 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY BY REGION IN 2011, CONSENSUS SCENARIO (%)	107
FIGURE 8 (CONTINUED)	108
TABLE 16 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY REGION, OPTIMISTIC SCENARIO (\$ MILLIONS).....	108
TABLE 17 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY REGION, PESSIMISTIC SCENARIO, 2006-2016 (\$ MILLIONS).....	108
SOFC MARKETS BY PRODUCT	109
TABLE 18 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY PRODUCT, CONSENSUS SCENARIO, THROUGH 2016 (\$ MILLIONS).....	109
FIGURE 9 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY PRODUCT, CONSENSUS SCENARIO, 2006-2016 (\$ MILLIONS).....	110
FIGURE 10 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY BY PRODUCT IN 2011, CONSENSUS SCENARIO (%).....	110
FIGURE 10 (CONTINUED)	111
TABLE 19 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY PRODUCT, OPTIMISTIC SCENARIO, THROUGH 2016 (\$ MILLIONS).....	111
TABLE 20 GLOBAL SOFC MARKET PROJECTIONS BY TECHNOLOGY, BY PRODUCT, PESSIMISTIC SCENARIO, THROUGH 2016 (\$ MILLIONS).....	111
CHAPTER SIX: INDUSTRY STRUCTURE AND COMPETITIVE ANALYSIS.....	112
COMPETITION	112
CONVENTIONAL TURBINE-BASED POWER GENERATION	112
INTERNAL COMBUSTION ENGINES	113

ULTRACAPACITORS.....	113
OTHER FUEL CELLS	114
Alkaline Fuel Cells	114
Phosphoric Acid Fuel Cells.....	115
Solid Oxide Fuel Cells	115
Molten Carbonate Fuel Cells	115
Proton Exchange Membrane Fuel Cells	115
BATTERIES	116
Batteries (Continued)	117
<i>TABLE 21 BATTERIES THAT COULD COMPETE WITH SOFCs.....</i>	<i>118</i>
Lead-acid Batteries.....	118
Nickel-metal Hydride Batteries	119
Lithium-ion and Lithium-polymer Batteries	120
Metal-air Batteries	121
Nickel-hydrogen Secondary Batteries	122
High-temperature Lithium Batteries	122
Sodium-sulfur Batteries	123
Redox and Flow Batteries	124
Nickel-iron Batteries	124
Nickel-Zinc Batteries.....	125
Calcium-metal Sulfide Batteries.....	125
Sodium-metal Chloride Batteries	126
INDUSTRY LEADERS	126
<i>TABLE 22 SOFC COMPANIES AND STATUS.....</i>	<i>127</i>
<i>TABLE 22 (CONTINUED).....</i>	<i>128</i>
<i>TABLE 22 (CONTINUED).....</i>	<i>129</i>
<i>TABLE 22 (CONTINUED).....</i>	<i>130</i>
<i>TABLE 22 (CONTINUED).....</i>	<i>131</i>
<i>TABLE 23 SOFC COMPANY SHIPMENT STATUS.....</i>	<i>132</i>
MARKET TIERS	133
Leading CHP SOFC Companies	133
<i>TABLE 24 LEADING SOFC CHP COMPANIES.....</i>	<i>133</i>
Leading Generators, Remote, and APU SOFC Companies	134
<i>TABLE 25 LEADING SOFC GENERATORS, REMOTE, AND APU</i> <i>COMPANIES</i>	<i>134</i>
Leading Military SOFC Companies.....	134
<i>TABLE 26 LEADING MILITARY SOFC COMPANIES.....</i>	<i>135</i>
Leading Portable SOFC Companies	135
<i>TABLE 27 LEADING PORTABLE SOFC COMPANIES.....</i>	<i>135</i>
Leading Exotic SOFC Companies.....	136
<i>TABLE 28 LEADING EXOTIC SOFC COMPANIES.....</i>	<i>136</i>
CHANNELS OF DISTRIBUTION	136
<i>TABLE 29 SOFC DISTRIBUTION CHANNELS.....</i>	<i>136</i>
<i>TABLE 29 (CONTINUED).....</i>	<i>137</i>

PURCHASING INFLUENCES	138
PRICE INFLUENCE	138
TABLE 30 SOFC PURCHASING INFLUENCES.....	138
PRICE TRENDS.....	138
FIGURE 11 DRIVING DOWN COSTS FOR FUEL CELLS (ORDER OF MAGNITUDE COST REDUCTION) (\$/KW).....	139
TECHNOLOGY LIFE CYCLE	140
TECHNOLOGY LIFE CYCLE (CONTINUED).....	141
MANUFACTURING PROCESS.....	142
FIGURE 12 SOFC MANUFACTURING TREE	142
FIGURE 13 SOFC MANUFACTURING FLOW.....	143
MANUFACTURING PROCESS (CONTINUED)	144
SOFC PATENTS.....	145
TABLE 31 RECENT SOFC PATENT ASSIGNEES	146
TABLE 31 (CONTINUED).....	147
TABLE 32 SOFC PATENTS.....	148
TABLE 32 (CONTINUED).....	149
TABLE 32 (CONTINUED).....	150
TABLE 32 (CONTINUED).....	151
TABLE 32 (CONTINUED).....	152
TABLE 32 (CONTINUED).....	153
CHAPTER SEVEN: COMPANY PROFILES	154
ACUMENTRICS HOLDING CORP.....	154
ACUMENTRICS HOLDING CORP. (CONTINUED)	155
ADAPTIVE MATERIALS, INC. (ULTRA ELECTRONICS).....	156
ADAPTIVE MATERIALS, INC... (CONTINUED).....	157
ADAPTIVE MATERIALS, INC... (CONTINUED).....	158
ADELAN U.K., LTD.	159
ADVANCED MATERIALS TECHNOLOGIES (ACCURON TECHNOLOGIES)	160
ADVANCED MEASUREMENTS, INC.....	160
ALPPS FUEL CELL SYSTEMS.....	161
ALSTOM TECHNOLOGY, INC.....	161
ALTAIR NANOTECHNOLOGIES, INC.....	162
BTU INTERNATIONAL, INC.....	163
THE BABCOCK & WILCOX CO. (MCDERMOTT INTERNATIONAL)	164
BABCOCK-HITACHI K.K.	164
BHP BILLITON, LTD.....	165
BLOOM ENERGY.....	166
BLOOM ENERGY (CONTINUED)	167
BLOOM ENERGY (CONTINUED)	168
BLOOM ENERGY (CONTINUED)	169
CELLTECH POWER, LLC.....	170
CERAMATEC, INC.....	170

CERAMIC FUEL CELLS, LTD.....	171
CERAMIC FUEL CELLS, LTD. (CONTINUED)	172
CERAMIC FUEL CELLS, LTD. (CONTINUED)	173
CERAMIC FUEL CELLS, LTD. (CONTINUED)	174
CERAMIC FUEL CELLS, LTD. (CONTINUED)	175
CERES POWER HOLDINGS.....	176
CERES POWER HOLDINGS (CONTINUED)	177
CERES POWER HOLDINGS (CONTINUED)	178
CERES POWER HOLDINGS (CONTINUED)	179
CHEVRON TECHNOLOGY VENTURES	180
CHUBU ELECTRIC POWER COMPANY, INC.	181
CMR PROTOTECH	182
CUMMINS POWER GENERATION, INC.	183
DANA CANADA CORP.	183
DELPHI CORP.....	184
DELPHI CORP. (CONTINUED)	185
DIGITAL GAS, INC.	186
EBZ ENTWICKLUNGS.....	187
EDISON ELECTRIC INSTITUTE.....	187
ELCOGEN AS	188
EMPRISE CORPORATION	188
ENERGIENED.....	188
ENRG, INC.....	189
ENRG, INC. (CONTINUED)	190
ENTWICKLUNGS UND VERTRIEBSGESELLSCHAFT	
BRENNSTOFFZELLE	191
FEV MOTORENTECHNIK GMBH	192
FIDERIS	192
FORSCHUNGSZENTRUM JUELICH	193
FRANKLIN ADVANCED MATERIALS	193
FUEL CELL TECHNOLOGIES.....	194
FUELCELL ENERGY, INC.	194
FUELCELL ENERGY, INC. (CONTINUED)	195
FUEL CELLS (SCOTLAND), LTD.	196
GENERAL ELECTRIC COMPANY.....	196
GEORGE WESTINGHOUSE RESEARCH AND TECHNOLOGY	
PARK.....	197
GLOBAL THERMOELECTRIC, INC. (FUELCELL ENERGY).....	197
GOETA TECHNOLOGY DEVELOPER INTERNATIONAL.....	198
HABCO, INC.	199
HALDOR TOPSOE A/S/TOPSOE FUEL CELL	199
HALDOR TOPSOE A/S/TOPSOE ... (CONTINUED)	200
HALDOR TOPSOE A/S/TOPSOE ... (CONTINUED)	201
HALDOR TOPSOE A/S/TOPSOE ... (CONTINUED)	202

HC STARCK GMBH	203
HEXIS, LTD.	204
HTCERAMIX SA.....	205
HOSOKAWA POWDER TECHNOLOGY RESEARCH INSTITUTE.....	205
INTERTEC SOUTHWEST, INC.	206
K-STYLE ADVANCED CERAMICS CO., LTD.	206
KAINOS ENERGY CORP. (NANOGRAM).....	206
KANSAI ELECTRIC POWER CO., INC.....	207
LOGANENERGY CORP.....	208
MATERIALS & SYSTEMS RESEARCH, INC.	208
MATERIALS & SYSTEMS ... (CONTINUED)	209
MEIDENSHA CORP.....	210
MERIDIAN ENERGY, LTD.	211
MERLONI TERMOSANITARI SPA (ARISTON THERMO GROUP).....	211
MESOSCOPIC DEVICES LLC	212
MORPHIC TECHNOLOGIES.....	212
NANODYNAMICS, INC.....	213
NATIONAL FUEL CELL RESEARCH CENTER.....	214
NEXTECH MATERIALS, LTD.	215
NEXTECH MATERIALS, LTD. (CONTINUED).....	216
NGIMAT CO.....	217
NGK INSULATORS, LTD.....	218
NIPPON SHOKUBAI CO., LTD.	219
NIPPON TELEGRAPH & TELEPHONE CORP.....	219
NIPPON TELEGRAPH & TELEPHONE ... (CONTINUED).....	220
NOAH TECHNOLOGIES CORP.	221
ONTARIO POWER GENERATION, INC.....	221
PLANSEE SE.....	221
PLUG POWER, INC.	222
POHANG IRON AND STEEL COMPANY (POSCO).....	223
PRECISION FLOW TECHNOLOGIES	224
PRESIDIO COMPONENTS, INC.	224
PROTONEX	225
RAGAN TECHNOLOGIES, INC.....	226
RAGAN TECHNOLOGIES, INC. (CONTINUED)	227
RISØ NATIONAL LABORATORY.....	228
ROLLS-ROYCE FUEL CELL SYSTEMS, LTD.....	229
SAFCELL	230
SANDVIK.....	231
SHELL HYDROGEN BV	232
SIEMENS POWER GENERATION, INC.....	233
SIEMENS POWER GENERATION, INC. (CONTINUED)	234
SIENERGY SYSTEMS (ALLIED MINDS).....	235
SOFCPOWER SLC	236

SOLID STATE ENERGY CONVERSION ALLIANCE.....	237
STANFORD MATERIALS CORP.	238
STATOIL ASA.....	239
STAXERA GMBH (SUNFIRE).....	239
STAXERA GMBH (SUNFIRE) (CONTINUED)	240
STAXERA GMBH (SUNFIRE) (CONTINUED)	241
SULZER HEXIS AG	242
SUMITOMO CORP.....	242
TOKYO GAS CO., LTD.....	243
TOSOH CORP. CERAMICS DIVISION	243
TOTO, LTD.....	244
TOYOTA.....	244
TOYOTA (CONTINUED).....	245
<i>TABLE 33 TOYOTA POWER GENERATING UNIT SPECIFICATIONS.....</i>	<i>246</i>
VAILLANT GMBH	246
VERSA POWER SYSTEMS, INC.	247
VERSA POWER SYSTEMS, INC. (CONTINUED)	248
VERSA POWER SYSTEMS, INC. (CONTINUED)	249
VIOLET FUEL CELL STICKS	250
WÄRTSILÄ CORP.	251
WÄRTSILÄ CORP. (CONTINUED).....	252
WATT FUEL CELL CORP.	253
WEBASTO AG	254
WORLDWIDE ENERGY, LLC.....	255
ZTEK CORP.	256
ZTEK CORP. (CONTINUED).....	257
APPENDIX U.S. PATENTS THAT MENTION SOFCS	258
<i>TABLE 34 SOFC PATENTS.....</i>	<i>258</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>259</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>260</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>261</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>262</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>263</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>264</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>265</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>266</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>267</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>268</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>269</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>270</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>271</i>
<i>TABLE 34 (CONTINUED).....</i>	<i>272</i>