CHAPTER 6—ENGINEERED SAFETY FEATURES
LIST OF FIGURES

Figure 6.2.1-1—RCP Cavity Nodalization Diagram (UJA15-006)..... 6.2-159
Figure 6.2.1-2—SG Cavity Nodalization Diagram (UJA23-004)..... 6.2-160
Figure 6.2.1-3—SG Cavity Nodalization Diagram (UJA29-004)..... 6.2-161
Figure 6.2.1-4—PZR Cavities Nodalization Diagram (30UJA29-019 and UJA34-019)..... 6.2-162
Figure 6.2.1-5—RCP Cavity Pressure vs. Time (UJA15-006)..... 6.2-163
Figure 6.2.1-6—SG Cavity Pressure vs. Time (UJA23-004) 6.2-164
Figure 6.2.1-7—SG Cavity Pressure vs. Time (UJA29-004) 6.2-165
Figure 6.2.1-8—Pressurizer Cavity Pressure vs. Time (UJA29-019) 6.2-166
Figure 6.2.1-9—Pressurizer Cavity Pressure vs. Time (UJA34-019) 6.2-167
Figure 6.2.1-10—LOCA Containment Pressure vs. Time (HL Break) 6.2-168
Figure 6.2.1-11—LOCA Containment Temperature vs. Time (HL Break) 6.2-169
Figure 6.2.1-12—LOCA Containment Pressure vs. Time (HL Break Long-term) 6.2-170
Figure 6.2.1-13—LOCA Containment Temperature vs. Time (HL Break Long-term) 6.2-171
Figure 6.2.1-14—LOCA Containment Pressure vs. Time (CLPS Break)..... 6.2-172
Figure 6.2.1-15—LOCA Containment Temperature vs. Time (CLPS Break) 6.2-173
Figure 6.2.1-16—LOCA Containment Pressure vs. Time (CLPS Break Long-term) 6.2-174
Figure 6.2.1-17—LOCA Containment Temperature vs. Time (CLPS Break Long-term) 6.2-175
Figure 6.2.1-18—LOCA Containment Pressure vs. Time (CLPD Break) 6.2-176
Figure 6.2.1-19—LOCA Containment Temperature vs. Time (CLPD Break) 6.2-177
Figure 6.2.1-20—LOCA Containment Pressure vs. Time (CLPD Break Long-Term) 6.2-178
Figure 6.2.1-21—LOCA Containment Temperature vs. Time (CLPD Break Long-Term) 6.2-179
Figure 6.2.1-22—LOCA Integrated Break Mass Flow vs. Time (HL Break) 6.2-180

Figure 6.2.1-23—LOCA Integrated Break Energy Flow vs. Time (HL Break) 6.2-181
Figure 6.2.1-24—LOCA Integrated Break Mass Flow vs. Time (CLPS Break) 6.2-182
Figure 6.2.1-25—LOCA Integrated Break Energy Flow vs. Time (CLPS Break) 6.2-183
Figure 6.2.1-26—LOCA Integrated Break Mass Flow vs. Time (CLPD Break) 6.2-184
Figure 6.2.1-27—LOCA Integrated Break Energy Flow vs. Time (CLPD Break) 6.2-185
Figure 6.2.1-28—LOCA Integrated Break Mass Flow vs. Time (HL Break, Long-Term) 6.2-186
Figure 6.2.1-29—LOCA Integrated Break Energy Flow vs. Time (HL Break, Long-Term) 6.2-187
Figure 6.2.1-30—LOCA Integrated Break Mass Flow vs. Time (CLPS Break, Long-Term) 6.2-188
Figure 6.2.1-31—LOCA Integrated Break Energy Flow vs. Time (CLPS Break, Long-Term) 6.2-189
Figure 6.2.1-32—LOCA Integrated Break Mass Flow vs. Time (CLPD Break, Long-Term) 6.2-190
Figure 6.2.1-33—LOCA Integrated Break Energy Flow vs. Time (CLPD Break, Long-Term) 6.2-191
Figure 6.2.1-34—MSLB 20% Power Pressure Response 6.2-192
Figure 6.2.1-35—MSLB 20% Power Temperature Response 6.2-193
Figure 6.2.1-36—LOCA Containment Dome Temperature at Different Elevations (HL Break Long-Term) 6.2-194
Figure 6.2.1-37—LOCA Containment Temperature below the Dome (HL Break Long-Term) 6.2-195
Figure 6.2.1-38—LOCA Containment Dome Temperature at Different Elevations (CLPS Break Long-Term) 6.2-196
Figure 6.2.1-39—LOCA Containment Temperature below the Dome (CLPS Break Long-Term) 6.2-197
Figure 6.2.1-40—LOCA Containment Dome Temperature at Different Elevations (CLPD Break Long-Term) 6.2-198
Figure 6.2.1-41—LOCA Containment Temperature below the Dome (CLPD Break Long-Term) 6.2-199
Figure 6.2.1-42—MSLB 20% Power Steam Generator Dome Pressure 6.2-200

Figure 6.2.1-43—MSLB 20% Power Integrated Break Mass vs. Time 6.2-201
Figure 6.2.1-44—MSLB 20% Power Integrated Break Energy vs. Time 6.2-202
Figure 6.2.3-1—AVS Normal Operation Train 6.2-213
Figure 6.2.3-2—AVS Accident Trains 6.2-214
Figure 6.2.4-1—Representative Containment Isolation Valve Arrangement 6.2-246
Figure 6.2.4-2—Containment Isolation Valve Arrangements for Overpressure Protection 6.2-247
Figure 6.2.5-1—Arrangement and Location of the Passive Autocatalytic Recombiners 6.2-260
Figure 6.2.5-2—Integrated Production of Hydrogen from 1% Core Oxidation 6.2-261
Figure 6.2.5-3—Integrated Production of Hydrogen from Radiolysis 6.2-262
Figure 6.2.5-4—Assumed Hydrogen Generation Rate from Zinc Sources 6.2-263
Figure 6.2.5-5—Assumed Hydrogen Generation Rate from Aluminum Sources 6.2-264
Figure 6.2.5-6—Integrated Production of Hydrogen from Zinc-Based Paint 6.2-265
Figure 6.2.5-7—Integrated Production of Hydrogen from Galvanized Steel 6.2-266
Figure 6.2.5-8—Integrated Production of Hydrogen from Aluminum 6.2-267
Figure 6.2.5-9—Concentration of Hydrogen in the Containment 6.2-268
Figure 6.3-1—Safety Injection System Overview 6.3-38
Figure 6.3-2—Safety Injection / Residual Heat Removal System Train (Typical) 6.3-39
Figure 6.3-3—IRWST Layout 6.3-41
Figure 6.3-4—SIS Sump Debris Entrainment Prevention Features 6.3-42
Figure 6.3-5—IRWST Sump Level Plan View 6.3-43
Figure 6.3-6—IRWST Heavy Floor Level Plan View 6.3-44
Figure 6.3-7—IRWST LOCA Temperature Response 6.3-45
Figure 6.4-1—Control Room Envelope Plan View 1 ..... 6.4-10
Figure 6.4-2—Control Room Envelope Plan View 2 ..... 6.4-11
Figure 6.4-3—Control Room Envelope Elevation View 6.4-12
Figure 6.8-1—Extra Borating System 6.8-7

Next File