

CHAPTER 6—ENGINEERED SAFETY FEATURES LIST OF FIGURES

Figure 6.2.1-1	Figure Deleted	6.2-183
Figure 6.2.1-2	Figure Deleted	6.2-183
Figure 6.2.1-3	Figure Deleted	6.2-183
Figure 6.2.1-4	Figure Deleted	6.2-183
Figure 6.2.1-5	Figure Deleted	6.2-183
Figure 6.2.1-6	Figure Deleted	6.2-183
Figure 6.2.1-7	Figure Deleted	6.2-183
Figure 6.2.1-8	Figure Deleted	6.2-183
Figure 6.2.1-9	Figure Deleted	6.2-183
Figure 6.2.1-10	LOCA Containment Pressure vs. Time (HL Break)	6.2-184
Figure 6.2.1-11	LOCA Containment Temperature vs. Time (HL Break)	6.2-185
Figure 6.2.1-12	LOCA Containment Pressure vs. Time (HL Break Long-term)	6.2-186
Figure 6.2.1-13	LOCA Containment Temperature vs. Time (HL Break Long-term)	6.2-187
Figure 6.2.1-14	LOCA Containment Pressure vs. Time (CLPS Break).....	6.2-188
Figure 6.2.1-15	LOCA Containment Temperature vs. Time (CLPS Break)	6.2-189
Figure 6.2.1-16	LOCA Containment Pressure vs. Time (CLPS Break Long-term)	6.2-190
Figure 6.2.1-17	LOCA Containment Temperature vs. Time (CLPS Break Long-term)	6.2-191
Figure 6.2.1-18	LOCA Containment Pressure vs. Time (CLPD Break)	6.2-192
Figure 6.2.1-19	LOCA Containment Temperature vs. Time (CLPD Break)	6.2-193
Figure 6.2.1-20	LOCA Containment Pressure vs. Time (CLPD Break Long-Term)	6.2-194
Figure 6.2.1-21	LOCA Containment Temperature vs. Time (CLPD Break Long-Term)	6.2-195
Figure 6.2.1-22	LOCA Integrated Break Mass Flow vs. Time (HL Break)	6.2-196
Figure 6.2.1-23	LOCA Integrated Break Energy Flow vs. Time (HL Break).....	6.2-197

Figure 6.2.1-24 LOCA Integrated Break Mass Flow vs. Time (CLPS Break)..... 6.2-198

Figure 6.2.1-25 LOCA Integrated Break Energy Flow vs. Time (CLPS Break).... 6.2-199

Figure 6.2.1-26 LOCA Integrated Break Mass Flow vs. Time (CLPD Break) 6.2-200

Figure 6.2.1-27 LOCA Integrated Break Energy Flow vs. Time (CLPD Break).... 6.2-201

Figure 6.2.1-28 LOCA Integrated Break Mass Flow vs. Time
(HL Break, Long-Term)..... 6.2-202

Figure 6.2.1-29 LOCA Integrated Break Energy Flow vs. Time
(HL Break, Long-Term)..... 6.2-203

Figure 6.2.1-30 LOCA Integrated Break Mass Flow vs. Time
(CLPS Break, Long-Term) 6.2-204

Figure 6.2.1-31 LOCA Integrated Break Energy Flow vs. Time
(CLPS Break, Long-Term) 6.2-205

Figure 6.2.1-32 LOCA Integrated Break Mass Flow vs. Time
(CLPD Break, Long-Term)..... 6.2-206

Figure 6.2.1-33 LOCA Integrated Break Energy Flow vs. Time
(CLPD Break, Long-Term)..... 6.2-207

Figure 6.2.1-34 MSLB 20% Power Pressure Response 6.2-208

Figure 6.2.1-35 MSLB 20% Power Temperature Response..... 6.2-209

Figure 6.2.1-36 LOCA Containment Dome Temperature at Different
Elevations (HL Break Long-Term) 6.2-210

Figure 6.2.1-37 LOCA Containment Temperature below the Dome
(HL Break Long-Term)..... 6.2-211

Figure 6.2.1-38 LOCA Containment Dome Temperature at Different
Elevations (CLPS Break Long-Term)..... 6.2-212

Figure 6.2.1-39 LOCA Containment Temperature below the Dome
(CLPS Break Long-Term)..... 6.2-213

Figure 6.2.1-40 LOCA Containment Dome Temperature at Different
Elevations (CLPD Break Long-Term) 6.2-214

Figure 6.2.1-41 LOCA Containment Temperature below the Dome
(CLPD Break Long-Term)..... 6.2-215

Figure 6.2.1-42 MSLB 20% Power Steam Generator Dome Pressure 6.2-216

Figure 6.2.1-43 MSLB 20% Power Integrated Break Mass vs. Time 6.2-217

Figure 6.2.1-44 MSLB 20% Power Integrated Break Energy vs. Time 6.2-218

Figure 6.2.1-45 JEA 10 (SG) Room Example Nodalization Diagram..... 6.2-219

Figure 6.2.1-46 Access Area Pressure vs. Time (-8 ft Room 2)..... 6.2-220

Figure 6.2.1-47 LCQ (SGBS) HX Room Pressure vs. Time (-8 ft Room 7) 6.2-221

Figure 6.2.1-48	KBA12 (CVCS) HX Room Pressure vs. Time (-8 ft Room 14)....	6.2-222
Figure 6.2.1-49	KBA11 (CVCS) HX Room Pressure vs. Time (-8 ft Room 15)....	6.2-223
Figure 6.2.1-50	KBA (CVCS) Valve Room Pressure vs. Time (-8 ft Room 16)...	6.2-224
Figure 6.2.1-51	KBA (CVCS) Valve Room Pressure vs. Time (-8 ft Room 17)....	6.2-225
Figure 6.2.1-52	LCQ50 (SGBS) Tank Room Pressure vs. Time (+5 ft Room 16).....	6.2-226
Figure 6.2.1-53	KBA (CVCS) Valve Room Pressure vs. Time (+5 ft Room 20).....	6.2-227
Figure 6.2.1-54	KBA (CVCS) Valve Room Pressure vs. Time (+5 ft Room 21)...	6.2-228
Figure 6.2.1-55	BA10 (CVCS) HX Room Pressure vs. Time (+5 ft Room 22).....	6.2-229
Figure 6.2.1-56	JEA10 (SG) Room Pressure vs. Time (+45 ft Room 2).....	6.2-230
Figure 6.2.1-57	JEA20 (SG) Room Pressure vs. Time (+45 ft Room 3)	6.2-231
Figure 6.2.1-58	JEA40 (SG) Room Pressure vs. Time (+45 ft Room 7).....	6.2-232
Figure 6.2.1-59	JEA10 (SG) Room Pressure vs. Time (+64 ft Room 1).....	6.2-233
Figure 6.2.1-60	JEA20 (SG) Room Pressure vs. Time (+64 ft Room 2).....	6.2-234
Figure 6.2.1-61	JEA30 (SG) Room Pressure vs. Time (+64 ft Room 5).....	6.2-235
Figure 6.2.1-62	JEA40 (SG) Room Pressure vs. Time (+64 ft Room 6).....	6.2-236
Figure 6.2.1-63	JEF10 (RCS) Pressurizer Room Pressure vs. Time (+64 ft Room 14).....	6.2-237
Figure 6.2.1-64	Pressurizer Head & Safety Relief Valves Room Pressure vs. Time (+79 ft Room 12)	6.2-238
Figure 6.2.3-1	AVS Normal Operation Train	6.2-254
Figure 6.2.3-2	AVS Accident Trains	6.2-255
Figure 6.2.4-1	Representative Containment Isolation Valve Arrangement	6.2-289
Figure 6.2.4-2	Containment Isolation Valve Arrangements for Overpressure Protection	6.2-290
Figure 6.2.5-1	Arrangement and Location of the Passive Autocatalytic Recombiners	6.2-311
Figure 6.2.5-2	Integrated Production of Hydrogen from 1% Core Oxidation.....	6.2-312
Figure 6.2.5-3	Integrated Production of Hydrogen from Radiolysis	6.2-313
Figure 6.2.5-4	Assumed Hydrogen Generation Rate from Zinc Sources.....	6.2-314
Figure 6.2.5-5	Assumed Hydrogen Generation Rate from Aluminum Sources.....	6.2-315
Figure 6.2.5-6	Integrated Production of Hydrogen from Zinc-Based Paint	6.2-316

Figure 6.2.5-7	Integrated Production of Hydrogen from Galvanized Steel.....	6.2-317
Figure 6.2.5-8	Integrated Production of Hydrogen from Aluminum.....	6.2-318
Figure 6.2.5-9	Concentration of Hydrogen in the Containment.....	6.2-319
Figure 6.2.5-10	Global Average Hydrogen Concentration within Containment for the Most Limiting Severe Accident Scenario	6.2-320
Figure 6.2.5-11	Hydrogen Concentration within Containment for the Most Limiting Severe Accident Scenario	6.2-321
Figure 6.2.5-12	Hydrogen Concentration in Special Compartments Most Limiting Severe Accident Scenario	6.2-322
Figure 6.2.5-13	Comparison of High Hydrogen Concentrations to Corresponding Steam Concentrations for Most Limiting Severe Accident Scenario.....	6.2-323
Figure 6.2.5-14	AICC Global Pressure and Containment Pressure for Most Limiting Severe Accident Scenario	6.2-324
Figure 6.2.5-15	Global AICC Temperature and Dome Temperature from a Realistic Burn.....	6.2-325
Figure 6.2.6-1	Leak-Off System Functional Arrangement.....	6.2-333
Figure 6.3-1	Safety Injection System Overview	6.3-41
Figure 6.3-2	Safety Injection / Residual Heat Removal System Train (Typical).....	6.3-42
Figure 6.3-3	IRWST Layout.....	6.3-44
Figure 6.3-4	SIS Sump Debris Entrainment Prevention Features.....	6.3-45
Figure 6.3-5	IRWST Sump Level Plan View	6.3-46
Figure 6.3-6	IRWST Heavy Floor Level Plan View	6.3-47
Figure 6.3-7	IRWST LOCA Temperature Response.....	6.3-48
Figure 6.3-8	LHSI in LBLOCA	6.3-49
Figure 6.3-9	MHSI in LBLOCA.....	6.3-50
Figure 6.3-10	LHSI in LBLOCA - Cavitation Erosion.....	6.3-51
Figure 6.3-11	MHSI in LB LOCA - Cavitation Erosion.....	6.3-52
Figure 6.4-1	Control Room Envelope Plan View 1	6.4-9
Figure 6.4-2	Control Room Envelope Plan View 2.....	6.4-10
Figure 6.4-3	Control Room Envelope Elevation View	6.4-11
Figure 6.8-1	Extra Borating System	6.8-7