

CHAPTER 6— ENGINEERED SAFETY FEATURES LIST OF FIGURES

Figure 6.2.1-1—RCP Cavity Nodalization Diagram (UJA15-006).....	6.2-102
Figure 6.2.1-2—SG Cavity Nodalization Diagram (UJA23-004)	6.2-103
Figure 6.2.1-3—SG Cavity Nodalization Diagram (UJA29-004)	6.2-104
Figure 6.2.1-4—PZR Cavities Nodalization Diagram (30UJA29-019 and UJA34-019).....	6.2-105
Figure 6.2.1-5—RCP Cavity Pressure vs. Time (UJA15-006).....	6.2-106
Figure 6.2.1-6—SG Cavity Pressure vs. Time (UJA23-004)	6.2-107
Figure 6.2.1-7—SG Cavity Pressure vs. Time (UJA29-004)	6.2-108
Figure 6.2.1-8—Pressurizer Cavity Pressure vs. Time (UJA29-019)	6.2-109
Figure 6.2.1-9—Pressurizer Cavity Pressure vs. Time (UJA34-019)	6.2-110
Figure 6.2.1-10—LOCA Containment Pressure vs. Time (HL Break)	6.2-111
Figure 6.2.1-11—LOCA Containment Temperature vs. Time (HL Break)	6.2-112
Figure 6.2.1-12—LOCA Containment Pressure vs. Time (HL Break Long-term)	6.2-113
Figure 6.2.1-13—LOCA Containment Temperature vs. Time (HL Break Long-term)	6.2-114
Figure 6.2.1-14—LOCA Containment Pressure vs. Time (CLPS Break).....	6.2-115
Figure 6.2.1-15—LOCA Containment Temperature vs. Time (CLPS Break)	6.2-116
Figure 6.2.1-16—LOCA Containment Pressure vs. Time (CLPS Break Long-term)	6.2-117
Figure 6.2.1-17—LOCA Containment Temperature vs. Time (CLPS Break Long-term)	6.2-118
Figure 6.2.1-18—LOCA Containment Pressure vs. Time (CLPD Break)	6.2-119
Figure 6.2.1-19—LOCA Containment Temperature vs. Time (CLPD Break)	6.2-120
Figure 6.2.1-20—LOCA Containment Pressure vs. Time (CLPD Break Long-Term)	6.2-121
Figure 6.2.1-21—LOCA Containment Temperature vs. Time (CLPD Break Long-Term)	6.2-122
Figure 6.2.1-22—LOCA Integrated Break Mass Flow vs. Time (HL Break)	6.2-123
Figure 6.2.1-23—LOCA Integrated Break Energy Flow vs. Time (HL Break).....	6.2-124

Figure 6.2.1-24—LOCA Integrated Break Mass Flow vs. Time (CLPS Break)..... 6.2-125

Figure 6.2.1-25—LOCA Integrated Break Energy Flow vs. Time (CLPS Break).. 6.2-126

Figure 6.2.1-26—LOCA Integrated Break Mass Flow vs. Time (CLPD Break) 6.2-127

Figure 6.2.1-27—LOCA Integrated Break Energy Flow vs. Time (CLPD Break).. 6.2-128

Figure 6.2.1-28—LOCA Integrated Break Mass Flow vs. Time (HL Break,
Long-Term) 6.2-129

Figure 6.2.1-29—LOCA Integrated Break Energy Flow vs. Time (HL Break,
Long-Term) 6.2-130

Figure 6.2.1-30—LOCA Integrated Break Mass Flow vs. Time (CLPS Break,
Long-Term) 6.2-131

Figure 6.2.1-31—LOCA Integrated Break Energy Flow vs. Time (CLPS Break,
Long-Term) 6.2-132

Figure 6.2.1-32—LOCA Integrated Break Mass Flow vs. Time (CLPD Break,
Long-Term) 6.2-133

Figure 6.2.1-33—LOCA Integrated Break Energy Flow vs. Time (CLPD Break,
Long-Term) 6.2-134

Figure 6.2.1-34—MSLB Containment Pressure vs. Time (50% Rated Power) ... 6.2-135

Figure 6.2.1-35—MSLB Containment Temperature vs. Time
(50% Rated Power)..... 6.2-136

Figure 6.2.3-1—AVS Normal Operation Train 6.2-147

Figure 6.2.3-2—AVS Accident Trains 6.2-148

Figure 6.2.4-1—Representative Containment Isolation Valve Arrangement 6.2-175

Figure 6.2.4-2—Containment Isolation Valve Arrangements for Overpressure
Protection..... 6.2-176

Figure 6.2.5-1—Arrangement and Location of the Passive Autocatalytic
Recombiners..... 6.2-189

Figure 6.2.5-2—Integrated Production of Hydrogen from 1% Core Oxidation..... 6.2-190

Figure 6.2.5-3—Integrated Production of Hydrogen from Radiolysis 6.2-191

Figure 6.2.5-4—Assumed Hydrogen Generation Rate from Zinc Sources..... 6.2-192

Figure 6.2.5-5—Assumed Hydrogen Generation Rate from Aluminum Sources. 6.2-193

Figure 6.2.5-6—Integrated Production of Hydrogen from Zinc-Based Paint 6.2-194

Figure 6.2.5-7—Integrated Production of Hydrogen from Galvanized Steel..... 6.2-195

Figure 6.2.5-8—Integrated Production of Hydrogen from Aluminum..... 6.2-196

Figure 6.2.5-9—Concentration of Hydrogen in the Containment..... 6.2-197

Figure 6.3-1—Safety Injection System Overview 6.3-35

Figure 6.3-2—Safety Injection / Residual Heat Removal System Train (Typical)..	6.3-36
Figure 6.3-3—IRWST Layout.....	6.3-38
Figure 6.3-4—SIS Sump Debris Entrainment Prevention Features.....	6.3-39
Figure 6.3-5—IRWST Sump Level Plan View	6.3-40
Figure 6.3-6—IRWST Heavy Floor Level Plan View	6.3-41
Figure 6.3-7—IRWST LOCA Temperature Response.....	6.3-42
Figure 6.4-1—Control Room Envelope Plan View 1	6.4-8
Figure 6.4-2—Control Room Envelope Plan View 2.....	6.4-9
Figure 6.4-3—Control Room Envelope Elevation View	6.4-10
Figure 6.8-1—Extra Borating System	6.8-7