

CHAPTER 12— RADIATION PROTECTION

LIST OF FIGURES

Figure 12.2-1—Nitrogen-16 Concentration Along Reactor Coolant Loop.....	12.2-38
Figure 12.2-2—Simplified Flow Diagram for Volume Control Tank	12.2-39
Figure 12.2-3—Simplified Flow Diagram for the Primary Coolant Degasification System Degasifier	12.2-40
Figure 12.3-1—Spreading Area at the -20 Ft Elevation of the Reactor Building.....	12.3-92
Figure 12.3-2—Reactor Cavity at the +17 Ft Elevation of the Reactor Building.....	12.3-93
Figure 12.3-3—Core Internals Storage Area and Instrument Lance Storage Areas at the +17 Ft Elevation in the Reactor Building	12.3-94
Figure 12.3-4—Transfer Pit at the +17 Ft Elevation in the Reactor Building	12.3-95
Figure 12.3-5—Transfer Pit at the +12 Ft Elevation in the Fuel Building.....	12.3-96
Figure 12.3-6—Loading Pit, Spent Fuel Pool, and Transfer Pit at the +24 Ft Elevation of the Fuel Building	12.3-97
Figure 12.3-7—Reactor Cavity Section	12.3-98
Figure 12.3-8—Containment Building Section Looking Plant-West at the Reactor Cavity, Core Internals Storage, Instrument Lance Storage, and Spreading Area	12.3-99
Figure 12.3-9—Containment Building Section Looking Plant-East at the Reactor Cavity, Core Internals Storage, Transfer Pit, and Spreading Area	12.3-100
Figure 12.3-10—Loading Pit Section Looking Plant-West in the Fuel Building	12.3-101
Figure 12.3-11—Transfer Pit Looking Plant-West in the Fuel Building	12.3-102
Figure 12.3-12—Spent Fuel Pool Section Looking Plant-North in the Fuel Building	12.3-103
Figure 12.3-13—Reactor Building Cross-Section Radiation Zones.....	12.3-104
Figure 12.3-14—[[Access Building at -31 Ft Elevation Radiation Zones]]	12.3-105
Figure 12.3-15—[[Access Building at -13 Ft Elevation Radiation Zones]]	12.3-106
Figure 12.3-16—[[Access Building at +0 Ft Elevation Radiation Zones]]	12.3-107
Figure 12.3-17—[[Access Building at +12 Ft Elevation Radiation Zones]]	12.3-108

Figure 12.3-18—[[Access Building at +25 Ft Elevation Radiation Zones]]	12.3-109
Figure 12.3-19—[[Access Building at +39 Ft Elevation Radiation Zones]]	12.3-110
Figure 12.3-20—[[Access Building at +54 Ft Elevation Radiation Zones]]	12.3-111
Figure 12.3-21—Safeguard Building 1 -31 Ft Elevation Radiation Zones	12.3-112
Figure 12.3-22—Safeguard Building 1 -16 Ft Elevation Radiation Zones	12.3-113
Figure 12.3-23—Safeguard Building 1 +0 Ft Elevation Radiation Zones	12.3-114
Figure 12.3-24—Safeguard Buildings 2 and 3 -31 Ft Elevation Radiation Zones.....	12.3-115
Figure 12.3-25—Safeguard Buildings 2 and 3 -16 Ft Elevation Radiation Zones.....	12.3-116
Figure 12.3-26—Safeguard Buildings 2 and 3 +0 Ft Elevation Radiation Zones.....	12.3-117
Figure 12.3-27—Safeguard Building 4 -31 Ft Elevation Radiation Zones	12.3-118
Figure 12.3-28—Safeguard Building 4 -16 Ft Elevation Radiation Zones	12.3-119
Figure 12.3-29—Safeguard Building 4 +0 Ft Elevation Radiation Zones	12.3-120
Figure 12.3-30—Fuel Building -31 Ft Elevation Radiation Zones.....	12.3-121
Figure 12.3-31—Fuel Building -20 Ft Elevation Radiation Zones.....	12.3-122
Figure 12.3-32—Fuel Building -11 Ft Elevation Radiation Zones.....	12.3-123
Figure 12.3-33—Fuel Building +0 Ft Elevation Radiation Zones.....	12.3-124
Figure 12.3-34—Fuel Building +12 Ft Elevation Radiation Zones.....	12.3-125
Figure 12.3-35—Fuel Building +24 Ft Elevation Radiation Zones.....	12.3-126
Figure 12.3-36—Fuel Building +36 Ft Elevation Radiation Zones.....	12.3-127
Figure 12.3-37—Fuel Building +49 Ft Elevation Radiation Zones.....	12.3-128
Figure 12.3-38—Fuel Building +64 Ft Elevation Radiation Zones.....	12.3-129
Figure 12.3-39—Fuel Building +79 Ft Elevation Radiation Zones.....	12.3-130
Figure 12.3-40—Fuel Building +90 Ft Elevation Radiation Zones.....	12.3-131
Figure 12.3-41—Fuel Building +112 Ft Elevation Radiation Zones.....	12.3-132
Figure 12.3-42—Nuclear Auxiliary Building -31 Ft Elevation Radiation Zones.....	12.3-133
Figure 12.3-43—Nuclear Auxiliary Building -21 Ft Elevation Radiation Zones.....	12.3-134
Figure 12.3-44—Nuclear Auxiliary Building -11 Ft Elevation Radiation Zones.....	12.3-135

Figure 12.3-45—Nuclear Auxiliary Building +0 Ft Elevation Radiation Zones.....	12.3-136
Figure 12.3-46—Nuclear Auxiliary Building +12 Ft Elevation Radiation Zones.....	12.3-137
Figure 12.3-47—Nuclear Auxiliary Building +24 Ft Elevation Radiation Zones.....	12.3-138
Figure 12.3-48—Nuclear Auxiliary Building +34 Ft Elevation Radiation Zones.....	12.3-139
Figure 12.3-49—Nuclear Auxiliary Building +50 Ft Elevation Radiation Zones.....	12.3-140
Figure 12.3-50—Nuclear Auxiliary Building +64 Ft Elevation Radiation Zones.....	12.3-141
Figure 12.3-51—Nuclear Auxiliary Building +81 Ft Elevation Radiation Zones.....	12.3-142
Figure 12.3-52—Radioactive Waste Building -32 Ft Elevation Radiation Zones.....	12.3-143
Figure 12.3-53—Radioactive Waste Building -21 Ft Elevation Radiation Zones.....	12.3-144
Figure 12.3-54—Radioactive Waste Building -11 Ft Elevation Radiation Zones.....	12.3-145
Figure 12.3-55—Radioactive Waste Building +0 Ft Elevation Radiation Zones.....	12.3-146
Figure 12.3-56—Radioactive Waste Building +12 Ft Elevation Radiation Zones.....	12.3-147
Figure 12.3-57—Radioactive Waste Building +23 Ft Elevation Radiation Zones.....	12.3-148
Figure 12.3-58—Radioactive Waste Building +36 Ft Elevation Radiation Zones.....	12.3-149
Figure 12.3-59—Radioactive Waste Building +53 Ft Elevation Radiation Zones.....	12.3-150
Figure 12.3-60—Safeguard Buildings 2 and 3 +15 Ft Elevation Access Paths	12.3-151
Figure 12.3-61—Safeguard Buildings 2 and 3 +27 Ft Elevation Access Paths	12.3-152
Figure 12.3-62—Safeguard Buildings 2 and 3 +39 Ft Elevation Access Paths	12.3-153
Figure 12.3-63—Safeguard Buildings 2 and 3 +53 Ft Elevation Access Paths	12.3-154

Figure 12.3-64—Safeguard Building 1 -31 Ft Elevation Postaccident Radiation Zones.....	12.3-155
Figure 12.3-65—Safeguard Building 1 -16 Ft Elevation Postaccident Radiation Zones.....	12.3-156
Figure 12.3-66—Safeguard Building 1 +0 Ft Elevation Postaccident Radiation Zones.....	12.3-157
Figure 12.3-67—Safeguard Buildings 2 and 3 -31 Ft Elevation Postaccident Radiation Zones	12.3-158
Figure 12.3-68—Safeguard Buildings 2 and 3 -16 Ft Elevation Postaccident Radiation Zones	12.3-159
Figure 12.3-69—Safeguard Buildings 2 and 3 +0 Ft Elevation Postaccident Radiation Zones	12.3-160
Figure 12.3-70—Safeguard Buildings 2 and 3 Section Postaccident Radiation Zones.....	12.3-161
Figure 12.3-71—Reactor Building Cross-Section Postaccident Radiation Zones.....	12.3-162
Figure 12.3-72—Main Control Room Airborne Monitoring.....	12.3-163
Figure 12.3-73—Reactor and Fuel Buildings Airborne Monitoring	12.3-164
Figure 12.3-74—Access, Nuclear Auxiliary, and Radioactive Waste Buildings Airborne Monitoring.....	12.3-165
Figure 12.3-75—Access Routes to MCR/TSC/Support Areas.....	12.3-166
Figure 12.3-76—General Access Routes to Buildings at Elevation -31 Ft	12.3-167
Figure 12.3-77—Access Routes to SASS Sample Point at Elevation -11 Ft.....	12.3-168
Figure 12.3-78—General Access Routes to Buildings at Elevation +0 Ft	12.3-169
Figure 12.3-79—General Access Routes to Buildings at Elevation +24 Ft	12.3-170
Figure 12.3-80—Radiochemistry Laboratory Facilities -31 Ft Elevation Nuclear Auxiliary Building	12.3-171
Figure 12.3-81—Safeguard Building 4 +0 Ft. Elevation Postaccident Radiation Zones.....	12.3-172