Appendix 6B. Figures

Figure 6-1. Symbols for Flow Diagrams





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Figure 6-5. Steam Concentration in a Vertical Distribution Channel



Figure 6-6. Peak Compression Pressure Versus Compression Ratio



Figure 6-7. Upper Compartment Compression Pressure Versus Energy Release for Tests at 100% and 200% of Initial DBA Blowdown Rate







Figure 6-9. Peak Containment Pressure Transient - Upper Containment Temperature



Figure 6-10. Peak Containment Pressure Transient - Lower Containment Temperature



Figure 6-11. Peak Containment Pressure Transient - Sump Temperature





Figure 6-13. Containment Spray Return Drains From Air Return Fan Pits

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Figure 6-14. Containment Spray Return Drains From Refueling Canal







SECTION 3



Figure 6-16. Ice Melted Versus Energy Release for Tests at Different Blowdown Rates







Figure 6-18. Peak Reverse Differential Pressure Transient

















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Figure 6-24. Peak Containment Temperature Transient - Lower Containment Temperature



Figure 6-25. Peak Containment Temperature Transient - Break Compartment Temperature

Figure 6-26. Deleted Per 1998 Update.



















Figure 6-31. Plan View at Ice Condenser Elevation - Ice Condenser Compartments


Figure 6-32. Layout of Containment Shell

Figure 6-33. TMD Code Network









(14 OCT 2000)



Figure 6-35. Illustration of Choked Flow Characteristics







Figure 6-37. Double Ended Steam Line Break in Steam Generator Enclosure



Figure 6-38. Double Ended Steam Line Break in Steam Generator Enclosure







Figure 6-40. Double Ended Steam Line Break in Steam Generator Enclosure



Figure 6-41. Two Volume Nodalization of the Steam Generator Enclosure



Figure 6-42. Two Volume Nodalization of the Pressurizer Enclosure







(14 OCT 2000)



Figure 6-44. Developed View of the TMD Code Network for the Reactor Cavity Analysis



Figure 6-45. Flow Path Connections for the Reactor Cavity Analysis



Figure 6-46. Containment Model for the Reactor Cavity Analysis



Figure 6-47. Reactor Vessel Nozzle Break Supports



Figure 6-48. Reactor Cavity Analysis Element 1



















Figure 6-53. Reactor Cavity Analysis Element 6







Figure 6-55. Reactor Cavity Analysis Element 8



Figure 6-56. Reactor Cavity Analysis Element 9



Figure 6-57. Reactor Cavity Analysis Element 10



Figure 6-58. Reactor Cavity Analysis Element 11



Figure 6-59. Reactor Cavity Analysis Element 12







Figure 6-61. Reactor Cavity Analysis Element 14



Figure 6-62. Reactor Cavity Analysis Element 15







Figure 6-64. Reactor Cavity Analysis Element 17



Figure 6-65. Reactor Cavity Analysis Element 18



Figure 6-66. Reactor Cavity Analysis Element 19



Figure 6-67. Reactor Cavity Analysis Element 20
































Figure 6-75. Reactor Cavity Analysis Element 28



Figure 6-76. Reactor Cavity Analysis Element 29



Figure 6-77. Reactor Cavity Analysis Element 30



Figure 6-78. Reactor Cavity Analysis Element 31



Figure 6-79. Reactor Cavity Analysis Element 32

















Figure 6-83. Reactor Cavity Analysis Element 47











Figure 6-86. Hot Leg Double Ended Guillotine Break



Figure 6-87. Hot Leg Double Ended Guillotine Break



Figure 6-88. Cold Leg Double Ended Guillotine Break



Figure 6-89. Cold Leg Double Ended Guillotine Break



Figure 6-90. Hot Leg Single Ended Split Break







Figure 6-92. Cold Leg Single Ended Split Break



Figure 6-93. Cold Leg Single Ended Split Break



Figure 6-94. Comparison of Satan to Henry-Fauske



Figure 6-95. Comparison of Satan to Moody Subcooled











Figure 6-98. Exit Plane Quality as a Function of Upstream Pressure for Saturated Liquid





Figure 6-100. Loft Tests 809 and 813 Gate P-1



Figure 6-101. Deleted Per 2001 Update

Figure 6-102. Deleted Per 2001 Update

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Figure 6-104. Deleted Per 2001 Update

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Figure 6-106. Deleted Per 2001 Update



Figure 6-107. Flow Diagram of Containment Air Return Exchange and Hydrogen Skimmer System



Figure 6-108. Reactor Building Heating-Ventilation-Air Conditioning


Figure 6-109. Containment Air Return Fan Performance Curve

Figure 6-110. Hydrogen Skimmer System

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Figure 6-111. Hydrogen Skimmer Fan Performance Curve





Hydrogen	Skimmer Syste	em	
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2	W Fan Room	0	
3	CLA-A	5	
4	CLA-B	5	
5	CLA-C	0	
6	CLA-D	0	
7	Instr Room	6	
9	Reactor	95	
10A	S/G-A	1	
10B	S/G-B	1	
10C	S/G-C	1	
10D	S/G-D	1	
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Figure 6-113. Isometric of Ice Condenser



Figure 6-114. Floor Structure





Figure 6-115. Wear Slab Top Surface Area Showing Typical Coolant Piping Layout





NOTES:

- I. MAXIMUM TANGENTIAL AND RADIAL SEISMIC LOADS CANNOT OCCUR SIMULTANEOUSLY.
- 2. TANGENTIAL AND RADIAL SEISMIC LOADS 45 DEGREES FROM THE REFERENCE DIRECTION OF SEISMIC INPUT OCCUR SIMULTANEOUSLY AND THE MAGNITUDE IS THE AVERAGE OF MAXIMUM RADIAL AND MAXIMUM TANGENTIAL TIMES THE COSINE OF 45°, OR (RADIAL + TANGENTIAL).707.
- 3. HORIZONTAL AND VERTICAL SEISMIC LOADS CAN OCCUR HORIZONTALLY.
- 4. BLOWDOWN LOADS, TANGENTIAL, RADIAL AND VERTICAL CAN OCCUR SIMULTANECUSLY. RADIAL BLOWDOWN LOADS ALWAYS OCCUR IN THE DIRECTION OF THE CONTAINMENT WALL.
 - * In an individual lattice frame.



Figure 6-117. Load Distribution for Tangential Seismic and Blowdown Loads in Analytical Model

Figure 6-118. Lattice Frame



Figure 6-119. Lattice Frame Analysis Model



(14 OCT 2000)





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Figure 6-122. Crane Assembly

Figure 6-123. Crane Rail Assembly













Figure 6-126. Schematic Flow Diagrams of Air Cooling Cycle



Figure 6-127. Air Handling Unit Support Structure

Figure 6-128. Deleted Per 2011 Update



Figure 6-129. Lower Inlet Door Assembly



Figure 6-130. Details of Lower Inlet Door Showing Hinge, Proportioning Mechanism Limit Switches and Seals

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Figure 6-131. Inlet Door Frame Assembly





Figure 6-133. Lower Inlet Door Shock Absorber Assembly



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Figure 6-134. Four Loop Ice Condenser Lower Support Structure Conceptual Plan and Sections

Figure 6-135. Four Loop Ice Condenser Lower Support Structure General Assembly



FIGURE 6-135 FOUR LOOP ICE CONDENSER LOWER SUPPORT STRUCTURE GENERAL ASSEMBLY

(13 APRIL 2001)

Figure 6-136. ANSYS Model Assembly









Figure 6-138. Schematic Diagram of Forces Applied to Three Pier Lower Support Structure



Figure 6-139. Force Transient Hot Leg Break

FREQUENCY - (hz)

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Figure 6-140. DLF Spectra Hot Leg Break Force Transient

Figure 6-141. Top Deck Test Assembly



(14 OCT 2000)


Figure 6-142. Details of Top Deck Door Assembly











Figure 6-143. Intermediate Deck Door Assembly







Figure 6-145. Phase Diagram for NA₂ B₄ O₇ .10 H/Water System at One Atmosphere

(14 OCT 2000)







Figure 6-147. Test Ice Bed Compaction Versus Ice Bed Height



Figure 6-148. Model of Horizontal Lattice Frame Structure



Figure 6-149. Group Six Interconnected Lattice Frames

Figure 6-150. Lattice Frame Ice Basket Gap





Figure 6-151. Typical Displacement Time Histories for 12 Foot Basket With End Supports - Pluck Test

Figure 6-152. Non Linear Dynamic Model







Figure 6-154. 9 Mass Radial Ice Basket Model













Figure 6-157. Phasing Study Model, 1 Level Lattice Frame 300 Degrees NonLinear Model







Figure 6-159. Typical Crane Wall Velocity



Figure 6-160. Typical Crane Wall Displacement



Figure 6-161. Typical Ice Basket Displacement Response







Figure 6-163. Typical Crane Wall Panel Load Response



Figure 6-164. Wall Panel Load Distribution Obtained Using the 48-Foot Beam Model Tangential Case

UFSAR Figure 6-165 (Page 1 of 1)





Figure 6-165. Wall Panel Load Distribution Obtained Using the 48-Foot Beam Model Radial Case



Figure 6-166. Ice Basket Impact Load Distribution Obtained Using the 48-Foot Beam Model Tangential Case

(14 OCT 2000)



Figure 6-167. Ice Basket Impact Load Distribution Obtained Using the 48-Foot Beam Model Radial Case



Figure 6-168. Lower Inlet Door Differential Pressure - Time History



Figure 6-169. Flow Diagram of Annulus Ventilation System

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Figure 6-170. Reactor Building Annulus - Developed Elevation From 270° to 90°



Figure 6-171. Reactor Building Annulus - Developed Elevation From 90° to 270°



Figure 6-172. Containment Piping Penetration Classification











Figure 6-174. Aluminum Corrosion in DBA Environment¹

Note(s):

1. Figure contains "historical" documentation (Refer to Section 6.1.7).


Figure 6-175. Results of Westinghouse Capsule Irradiation Tests



Figure 6-176. Flow Diagram of Safety Injection (NI) System

Figure 6-177. Flow Diagram of Safety Injection System



Figure 6-178. Deleted Per 1993 Update



Figure 6-179. NPSH and Head Capacity Curves for RHR Pumps



Figure 6-180. NPSH and Head Capacity Curves for Safety Injection Pumps



Figure 6-181. NPSH and Head Capacity Curves for Charging Pumps





(14 OCT 2000)

























































(14 OCT 2000)






Figure 6-183. ECCS Process Flow Diagram

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Figure 6-185. Leak Rates for Bushing





Figure 6-186. Bushing Leak Rate After Severe Operation

LEAKAGE, GPH



Figure 6-187. Cutaway View of Motor Operated Valve Actuator



Figure 6-188. Flow Diagram of Control Area Chilled Water System

McGuire Nuclear Station



Figure 6-189. Flow Diagram of Control Area Chilled Water System



Figure 6-190. Flow Diagram of Control Area Chilled Water System



Figure 6-191. Flow Diagram of Control Area Ventilation System

Figure 6-192. Deleted Per 1993 Update

Figure 6-193. Deleted Per 1993 Update



Figure 6-194. Flow Diagram of Containment Spray (NS) System



Figure 6-195. Spray Nozzle Mass Distribution



Figure 6-196. Containment Sump Strainers - Unit 1 (Unit 2 similar)



Containment Sump Strainers- Unit 1 (Unit 2 similar)

VIEW B-B

(09 OCT 2015)

Containment Sump Strainers - Unit 1 (Unit 2 similar)





Figure 6-197. Intermediate Deck Differential Pressure - Time History



Figure 6-198. Zinc Corrosion in DBA Environment



Figure 6-199. Flow From Intact And Broken Loops

TIME AFTER BREAK (SECONDS)





Figure 6-201. Double-Ended LBLOCA Mass and Energy Release Analysis

Figure 6-202. Double-Ended LBLOCA Mass and Energy Release Analysis

Figure 6-203. Double-Ended LBLOCA Mass and Energy Release Analysis



MNS RSG LOCA M&E Release

Figure 6-204. Double-Ended LBLOCA Mass and Energy Release Analysis

Figure 6-205. Upper and Lower Compartment Pressure, Min. Pressure Analysis

Figure 6-206. Upper Compartment Heat Removal Rate, Min. Pressure Analysis

Figure 6-207. Lower Compartment Heat Removal Rate, Min. Pressure Analysis

Figure 6-208 Upper and Lower Compartment Temperature, Min. Pressure Analysis

Figure 6-209. Ice Bed Heat Removal Rate, Min. Pressure Analysis

6-210. Heat Removal Rate by Lower Compartment Drain, Min. Pressure Analysis

Figure 6-211. Heat Removal Rate by Sump and Spray, Min. Pressure Analysis

