



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 27.0
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Large-Break Containment Data (Ice Condenser Containment)

| | |
|--|---|
| Net Free Volume Distribution Between Upper (UC), Lower (LC), Ice Condenser (IC) and Dead-Ended (DE) Compartments | UC: 729,969 ft ³ LC: 295,258 ft ³ IC: 122,350 ft ³ DE: 60,209 ft ³ |
| Initial Condition Containment Pressure | 14.7 psia |
| Maximum Temperature for the Upper (UC), Lower (LC) and Dead-Ended (DE) Compartments | UC: 100°F LC: 120°F DE: 120°F |
| Temperature Outside Containment | -22°F |
| Initial Spray Temperature at 14.7 psia | 45°F ¹ |
| Maximum Containment Spray Flow Rate ² | 3700 gpm / pump |
| Number of Spray Pumps Operating | 2 |
| Post-Accident Initiation of Spray System ² | 44 sec |
| Post-Accident Initiation of Deck Fans ² | 108 sec |
| Deck Fan Flow Rate | 48,000 cfm / fan |
| Assumed Spray Efficiency of Water from Ice Condenser Drains | 100% |

¹ Due to errors identified with the LOTIC2 containment backpressure calculation, an evaluation was performed assuming a revised initial CTS temperature. See Section 14.3 .1.6.1 for more information.

² Parameter values affected by the evaluation described in Section 14.3.1.6.2.