

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

Revision: 25.0
Table: 14.3.2-1
Sheet: 1 of 2

Plant Input Parameters for Small Break Loss-of-Coolant Accident	
Core Rated Thermal Power-100% (MWt)	3304
Peak Linear Power, kW/ft	15.171
Fuel Type	15x15 Upgrade Fue
Total Core Peaking Factor, F <sub>Q</sub>	2.32
Hot Channel Enthalpy Rise Factor, $F_{\Delta H}$	1.55
Hot Assembly Average Power Factor, P <sub>HA</sub>	1.38
Thermal Design Flow, gpm/loop	83,200
Nominal Vessel Average Temperature, °F	577.4 <sup>(1)</sup>
Nominal Pressurizer Pressure, psia	2250 <sup>(2)</sup>
Pressurizer Pressure Uncertainty (psia)	±67
Minimum Auxiliary Feedwater Flow Rate, lbm/s per SG	14.68
Steam Generator Tube Plugging (Maximum), %	10
Initial Accumulator Water Volume, ft <sup>3</sup>	946
Accumulator Tank Volume, ft <sup>3</sup> /tank	1350
Accumulator Water Temperature, °F	130
Minimum Accumulator Cover Gas Pressure (minus uncertainties), psia	600
Refueling Water Storage Tank Temperature, °F	105
Nominal Steam Pressure, psia	848.32



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Revision: 25.0 Table: 14.3.2-1 Sheet: 2 of 2

Plant Input Parameters for Small Break Loss-of-Coolant Accident		
SI Flow Delay Time, seconds	54	
HHSI Cross-Tie Valve Position	Open (Injection & Cold Leg Recirculation) <sup>(3)</sup>	
RHR Cross-Tie Valve Position	Open (Injection)  Closed (Cold Leg Recirculation)	

- (1) Analysis supports operation over the range of nominal full-power Tavg values of  $553.7^{\circ}F 575.4^{\circ}F$ .
- (2) Analysis supports operation at nominal initial pressurizer pressure (without uncertainties) of 2100 psia and 2250 psia.
- (3) Conservatively modeled HHSI cross-tie valves closed in injection phase.

Unit 1 Last Revised: Revision 25.0