

	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revision: 24.0 Table: 3.5.2-3 Page: 1 of 1
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**SHUTDOWN REQUIREMENTS AND MARGINS
COOK NUCLEAR PLANT UNIT 1 - CYCLE 22**

<u>Control Rod Worth (%$\Delta\rho$)</u>	<u>BOC</u>	<u>EOC</u>
Available Rod Worth Less Worst Stuck Rod	6.158	6.222
(A) Less 10%	5.542	5.600
<u>Control Rod Requirements (%$\Delta\rho$)</u>		
Reactivity Defects (Doppler, T_{avg} , RIA, Redistribution)	1.400	2.113
Void Allowance	0.050	0.050
(B) Total requirements	1.450	2.163
<u>(C) Shutdown Margin [(A)-(B)] (%$\Delta\rho$)</u>	4.092	3.437
<u>(D) Required Shutdown Margin (%$\Delta\rho$)</u>	1.300	1.300
<u>Excess Shutdown Margin [(C) – (D)] (%$\Delta\rho$)</u>	2.792	2.137