

UFSAR Revision 30.0

 An AEP Company	INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revision: 17 Table: 10.5-1 Page: 1 of 1
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AUXILIARY FEEDPUMP DESIGN PARAMETERS

	TURBINE DRIVEN PUMP	MOTOR DRIVEN PUMP
Suction Temp. (°F max.)	120	120
Suction Press (psig) ¹	25	25
Design Press (psig) ²	1200	1200
Design Total Dynamic Head (ft)	2714 ³ / 2745 ³	2714
Total Shut Off Head (psig) ¹	1590 ⁴	1430
Net Discharge flow (gpm)	900 ³ / 906 ⁴	450
Horsepower (HP)	900 ³	500
Rated Speed (rpm)	4350	3560
High-Speed Stop Setpoint (rpm)	4378	N/A

¹ From Condensate Storage Tank

² Evaluated to be acceptable to 1590 psig for the TDAFP, 1500 psig for the EMDAFP, and 1550 psig for the WMDAFP (Section 10.5.2.5 - References 1 and 2)

³ At Rated Pump Speed

³ At Turbine High-Speed Setpoint

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CIRCULATING WATER PUMP DESIGN PARAMETERS

Quantity	7
Type	Vertical, wet pit, propeller
Rated Capacity (GPM) each	230,000
Rated Head (ft. H ₂ O)	34.9
Rated Speed (RPM)	252
Rated Motor Power (HP)	2,750