

**COMMISSIONING OF THE LOWER HYBRID CURRENT DRIVE SYSTEM ON
ALCATOR C-MOD**

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The plasma current profile evolution will be controlled and sustained in the Alcator C-Mod Advanced Tokamak Lower Hybrid Current Drive Experiment by use of the installed 3 MW, 4.6 GHz Lower Hybrid Current Drive (LHCD) System. LHCD and an existing 8 MW of source ICRH capability are to be used to develop regimes with high confinement, high β_n and high bootstrap fraction and extend them to quasi-steady-state conditions. This paper will describe the commissioning and initial operation of the LHCD system that includes a 50kV, 208A pulsed-power supply, twelve 250kW Klystron transmitters, a 96 waveguide launcher and required control, protection and data acquisition systems.